

1. Digital Financial Report Creation Best Practices

The purpose of this section is to discuss best practices related to the creation of XBRL-based digital financial reports. In addition, we will discuss a global standard method for creating such reports.

The following is a summary of common sense digital financial report creation best practices which should be consciously applied when creating or reviewing an XBRL-based digital financial report. If you are not conscious of these best practices you are likely unconsciously violating these best practices.

These creation best practices apply to every report component which discloses information. This is not a cook book for representing specific accounting disclosures using the XBRL format.

These creation best practices are logical, rational, and sensible ideas based on the observation and analysis of thousands of digital financial reports, what seems to work, and what does not work, and more importantly specifically why something does or does not work. These creation best practices relate to the mechanical workings of the report.

Each creation best practice is explained, an example provided, as well as descriptive information where that is helpful. Many times both inappropriate approaches and appropriate approaches are shown so that they might be compared and contrasted so that specific differences can be understood.

Many times details are hard to explain with a simple narrative or screen shot and therefore subtle differences or important nuances can be hard to articulate. The reference implementation from section for helps to understand subtleties and nuances. Where it is helpful, best practices are referenced to the reference implementation of an XBRL-based digital financial report in section 4 or to the underlying framework provided in section 3.

HINT: A good way to learn about creating XBRL-based digital financial reports is examining the mistakes made by others¹. This blog post provides several PDF files which have lists of errors in XBRL-based public company financial filings submitted to the SEC: <http://xbrl.squarespace.com/journal/2016/12/15/understanding-logical-mechanical-and-mathematical-accounting.html>².

1.1. Recognize that the goal is the meaningful exchange of information readable by both humans and machines

Financial reports tell a story. That is the ultimate purpose of a financial report, to summarize the financial position and financial condition of an economic entity.

¹ *High Quality Examples of Errors in XBRL-based Financial Reports*, <http://xbrl.squarespace.com/journal/2017/4/29/high-quality-examples-of-errors-in-xbrl-based-financial-repo.html>

² *Understanding Logical, Mechanical, and Mathematical Accounting Relations in XBRL-based Digital Financial Reports*, <http://xbrl.squarespace.com/journal/2016/12/15/understanding-logical-mechanical-and-mathematical-accounting.html>

That story is the same whether the information of that financial report is expressed on paper, electronically using HTML or PDF, or digitally using the XBRL technical format or some other machine readable format. Changing the medium which is used to represent and communicate the information does not change the story the financial report conveys.

Creators and users of information conveyed in a financial report may interpret reported facts in different ways; however they must agree on the facts which have been reported. The meaning of the reported fact must be unambiguous.

The bottom line is that the creator of the information and the users of the information conveyed by a digital financial report should have the same understanding of the facts. Users may interpret the information as they wish, but the facts should have the same meaning to the creator or any one reading a digital financial report, even if the reader is a machine-based process.

1.2. Remember that meaningful exchange requires prior existence of agreed upon rules

A meaningful exchange of information can only occur to the extent that technical syntax rules, business domain semantic³ rules, and business domain workflow/process rules have been defined *in advance*. To the extent that these rules exist *in advance*, information exchanged will have the quality of meaning for the information to be useful, that quality being guaranteed by the those rules.

Rules are in essence a form of agreement. The rules are a communications tool. When humans are involved in interpreting information they can overcome a certain amount of ambiguity in communicated information. However, machines are less adept at overcoming ambiguity. If a rule is not explicitly specified and is open to interpretation, then a software developer must make a choice and decide how exactly to interpret that situation and therefore how a computer will react. If different software developers are involved, they will commonly interpret things differently.

Historically, such rules have generally been hard coded into individual business systems by programmers. Before the internet existed and therefore before one business system could communicate with another business system this was not really a problem. Every system was a silo.

All that changed when the internet came into existence. Now it is possible to exchange information between business systems.

However, rather than hardcoding rules into individual systems these rules can be created external to a system as metadata and managed by business users rather than the IT department⁴. Why is this important? Because if business people can change rules by changing metadata (rather than relying on programmers to change software code); the way the system acts can be changed by business professionals. Costs are reduced, time is saved, functionally can be tweaked with less effort. The rules can also be exchanged *between* systems.

³ Differentiating the terms syntax and semantics is crucial. If you don't understand the difference between the terms syntax and semantics, please see the video here:

<http://xbml.squarespace.com/journal/2010/6/1/differentiating-syntax-and-semantics.html>

⁴ *Understand that Business Professionals Can Understand Business Rules,*

<http://xbml.squarespace.com/journal/2015/8/30/understanding-that-business-professionals-can-understand-bus.html>

The following is a summary of the types of automated and manual verification checks that must be performed to make sure certain that an XBRL-based financial report is created correctly. To the extent that business rules (a) can be written and (b) are available certain tasks can be automated. Automated verification tasks are more reliable, not subject to human error, and cost less because of the automation.

#	Goal or Desired State of Digital Financial Report	Automatable	Manual
1	XBRL syntax: XBRL technical syntax consistent with XBRL technical specification requirements	X	
2	EFM: Consistent with requirements of EDGAR Filer automated and manual (EFM) syntax/semantics rules	X	X
3	Model structure: Consistent and unambiguous report level representation or model structure	X	
4	Root economic entity discovery: Root entity of focus (economic entity, accounting entity) successfully and unambiguously detectable	X	
5	Key dates: Current balance sheet date (document period end date) and income statement period (period context of document period end date) successfully and unambiguously detected	X	
6	FAC relations: Fundamental accounting concept skeleton successfully and unambiguously detected and relations between concepts consistent	X	
7	Statement roll ups: Primary financial statement roll up computations (balance sheet, income statement, statement of comprehensive income, cash flow statement) detected, intact, and foot	X	
8	Statement discovery: Primary financial statements successfully discovered	X	X
9	Statement computations: Primary financial statements foot and roll forward (cash flow statement, statement of changes in equity) appropriately	X	
10	Level 1 notes: Level 1 footnote disclosures appropriate	X	X
11	Industry specific: Industry specific accounting concepts and relations valid	X	X
12	Level 2 policies: Level 2 policy text block disclosures appropriate		X
13	Level 3 Text Block disclosures: Each Level 3 [Text Block] and related Level 4 detail disclosure match appropriately	X	X
14	Level 4 detailed disclosures: Each Level 4 detail disclosure valid including representation structure, mathematical computations, intersections with other components, etc.	X	X
15	Required disclosures: Required disclosures discovered	X	
16	Consistency with prior period: Reported prior period information consistent with prior report current period information where appropriate	X	X
17	Consistency of disclosures: Disclosure rules have been met and make sense	X	X
18	Concept selection appropriateness: Report element selection is justifiable, defensible, and otherwise appropriate		X
19	Reported facts full/false inclusion: Reported facts appropriate		X
20	Consistency of facts with peers: Variance analysis of reported facts as compared to peer or peer group appropriately explainable	X	X
21	Concept selection consistent with peers: Report element selection is consistent with peers or peer groups as appropriate		X

22	Disclosure full/false inclusion: Disclosure checklist review for full inclusion		X
23	True and fair representation: True and fair representation of financial information of economic entity		X

Current manually created disclosure checklists will be replaced, to a degree, by automated machine-based processes⁵. Structured information makes this possible. You can think of it this way. In the past, information was unstructured and therefore unreadable by a computer process. Now information is structured. Some portion of the manual process of creating a financial report will be automated. The extent that a process can be automated is directly correlated with the ability to create machine readable rules and extent to which those rules exist.

1.3. Respect all basic logical relations, structural relations, and mathematical relations that trump the ‘rule books’

Whether they are explicitly required by some “rule book” or not; all logical, structural, and mathematical relations must be respected because these relations are mandated by something that trumps the rule books: common sense and the rules of logic.

For example, there is nothing in SEC regulations or the Edgar Filer Manual (EFM) that says that “Assets = Liabilities and Equity”. However, that does not mean that you can simply violate the accounting equation⁶ which is a fundamental rule of accounting.

And whether you have an automated machine-based process for detecting and checking these logical, structural, and mathematical relations or not; someone else will and these errors will be detected eventually.

There are two primary reasons for making the effort to detect and correct these basic issues. The obvious reason is that you don’t want to make mistakes. But the less obvious reason, and really the most important reason, is because doing so will help you create processes and procedures for detecting and correcting such errors and will help you realize that ultimately software should be created that does not let you create these errors in the first place⁷.

The document *Understanding Disclosure Mechanics*⁸ provides a basic starting point you can strive for:

- Don’t use Level 3 Disclosure Level Text Blocks to represent Level 1 Note Level Text Blocks.
- Don’t use Level 1 Note Level Text Blocks to represent Level 3 Disclosure Level Text Blocks.

⁵ *Digital Financial Reporting will Change Accounting Work Practices*, <http://xbrl.squarespace.com/journal/2014/3/20/digital-financial-reporting-will-change-accounting-work-prac.html>

⁶ Wikipedia, *Accounting Equation*, https://en.wikipedia.org/wiki/Accounting_equation

⁷ *Intelligent XBRL-based Digital Financial Reports*, <http://xbrl.squarespace.com/journal/2017/1/1/intelligent-xbrl-based-digital-financial-reports.html>

⁸ *Understanding Disclosure Mechanics*, <http://xbrl.azurewebsites.net/2016/Analysis/UnderstandingDisclosureMechanics.pdf>

- Make sure your Level 3 Disclosure Level Text Blocks and Level 4 Disclosure Details are matched sets.
- Make sure that every Roll Up has the required XBRL calculation relations and that the XBRL calculation relations show that the Roll Up you represented is consistent and actually rolls up.
- Don't use the sort category "Schedule". Use "Disclosure" instead. The SEC does not distinguish between the two sort categories; it is just easier to stick with "Disclosure".
- When you create your XBRL instances, test them using XBRL Formula relations to make sure all of your roll forwards and member aggregations work correctly. After you know they work, you can detach the XBRL Formula relations from your XBRL instance for submission to the SEC.
- Filing agents, create an internal taxonomy and try to consistently use the same Level 3 Disclosure Text Blocks from your one internal taxonomy for all your customer filings. Why? Because there are a lot of missing Level 3 Disclosure Text Blocks missing from the US GAAP XBRL Taxonomy. What this also does is helps you accumulate a list that you can provide to the FASB to get them to add those missing text blocks.
- Focus on the most commonly occurring disclosures⁹.

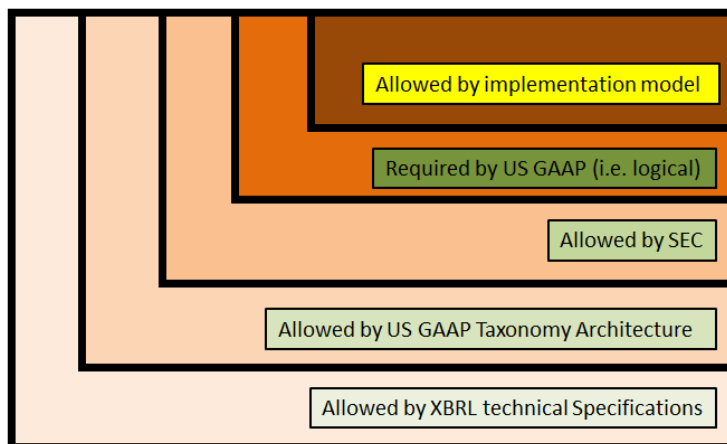
As you endeavor to detect and correct issues, keep good notes. You will likely accumulate a lot of very good information which will be helpful to both get the US GAAP XBRL Taxonomy better dialed in and to software engineers who provide you with the software you need to do your work.

1.4. Recognize that even if SEC filing rules and the US GAAP XBRL Taxonomy may allow for ambiguity; approaches do exist where XBRL-based digital financial reports rules can be followed and information is consistent, explicit and unambiguous

There is a "safe" or "happy path" through SEC Edgar Filer Manual (EFM) filing rules and the US GAAP XBRL Taxonomy where a quality, reliable, predictable, repeatable implementation approach can result. While it is likewise possible to pick a path where meaning is not clear and information is impossible or difficult to make use of; paths likewise exist which make meaning unambiguous and easy to make use of.

Consider the graphic below.

⁹ *Analysis of Disclosures* (10-K financial filings as of March 31, 2016), <http://xbrlsite.azurewebsites.net/2016/Analysis/SummaryTable.pdf>



The outer most box represents what is allowed by the XBRL technical specifications. The US GAAP Taxonomy Architecture specifies additional constraints, limiting how the XBRL technical syntax can be used. For example, the US GAAP Taxonomy Architecture disallows the use of tuples, the scenario context, and the precision attribute all of which the XBRL technical syntax does allow. The SEC places further restrictions on what is allowed. For example, every public company submitting an XBRL-based financial filing must use a specific entity identifier scheme and identifier, the CIK number. The EFM rules require this and inbound validation performed by the SEC enforces this rule.

US GAAP itself further restricts how the XBRL technical syntax can be used. For example, balance sheets balance (assets = liabilities and equity) or the accounting equation is a business rule which all financial reports must follow. However, neither the SEC nor the FASB provides this rule in machine readable form. But this does not prohibit a system from creating and enforcing this logical, mathematical business rule.

The smallest box is a more constrained set of rules that follows all other rules specified by US GAAP, the SEC, the US GAAP Taxonomy Architecture, and the XBRL technical specification. For example, the SEC and US GAAP XBRL Taxonomy architecture does not *require* [Table]s to be used to report all information. But it does *allow* [Table]s to be used. There is nothing that prevents a software vendor from *requiring* the consistent use of [Table]s in their software. In fact, some software vendors already do. Why? Because if software consistently uses [Table]s, you don't need to explain to an accounting professional when to use a [Table] and when not to use a [Table]. One less detail business professionals need to worry about, the system takes care of that detail for you.

Basically, the box labeled "Allowed by implementation model" is nothing more than an application profile, a common tool software developers use to hide complexity from business users making use of software.

It is through balancing all of these layers correctly that an easy to use approach to representing financial information digitally using the XBRL format can be achieved.

Creating software that is complex and difficult to use is easy. Building software that is simple to use is hard work.

1.5. Recognize that being explicit contributes to the unambiguous interpretation of reported information

The probability that reported facts will be agreed to by creators and users of information is increased if reported facts are explicit and unambiguous. By contrast, if information needs to be implied by the user of the financial information the probability for an inappropriate interpretation increases.

Explicit is defined as “stated clearly and in detail, leaving no room for confusion or doubt”. Implicit is defined as “understood though not directly expressed”. Explicit is preferred to implicit because many times something which one might believe is understood but not directly expressed, could be understood differently than one might expect it to be understood. Being explicit makes it unnecessary to imply.

Deriving new information using existing information and the rules of logic and reasoning is almost as good as explicit information. Deriving based on the rules of logic and implying are not the same thing.

Unambiguous is defined as “not open to more than one interpretation”. The definition of meaningful is “something that has a purpose”. Information cannot be both “meaningful” and “ambiguous”. Ambiguous is defined as “open to more than one interpretation” or “doubtful or uncertain”.

The purpose of a financial report is to convey meaning. The only way a meaningful exchange of information can occur is the prior existence of agreed upon syntax, semantics, and workflow/process rules. To the extent that these explicit business rules exist, information can be unambiguous.

1.6. Strive for consistency and simple

Consistency is good and preferred over inconsistency. Consistency makes things simpler. “Simple” is not about doing simple things. Simplicity is the ultimate sophistication¹⁰. There is a difference between simplistic and simple.

Simplistic is dumbing down a problem in order to make the problem easier to solve. Simplistic ignores complexity in order to solve a problem which can get you into trouble. Simplistic is over-simplifying. Simplistic means that you have a naïve understanding of the world, you don’t understand the complexities of the world. Removing or forgetting complicated things does not allow for the creation of a real world solution that actually work.

Simple is something that is not complicated, that is easy to understand or do. Simple means without complications. An explanation of something can be consistent with the real world, consider all important subtleties and nuances, and still be simple, straight forward, and therefore easy to understand.

If there is no specific reason for an inconsistency which can be explained which justifies the inconsistency; then you are very likely being inconsistent unconsciously with no reason and therefore one of the approaches can and should be dropped.

Inconsistencies cause additional training costs and additional burden, and unnecessary, burden on the user to somehow rationalize the inconsistency.

¹⁰ *Understanding the Law of Conservation of Complexity*,
<http://xbrl.squarespace.com/journal/2015/5/24/understanding-the-law-of-conservation-of-complexity.html>

1.7. Recognize the difference between presentation and representation

Paper and HTML are presentation formats. XBRL is a representation format. XBRL representations can be converted into presentations using software. The SEC Interactive Data Viewer is one example of turning an XBRL-based representation into a human readable presentation. And so, the representation format can be leveraged to also present information.

Accountants can choose to *present* information in different ways according to their preferences. However, the *representation* of information is not generally subject to interpretation. Presentation tends to be arbitrary.

Consider the following information fragments:

Fragment #1:

Net income (loss)	1,000,000
Net income (loss) attributable to noncontrolling interest	200,000
Net income (loss) attributable to parent	800,000

Fragment #2:

Net income (loss)	1,000,000
Less: Net income (loss) attributable to noncontrolling interest	200,000
Net income (loss) attributable to parent	800,000

Fragment #3:

Net income (loss)	1,000,000
Net income (loss) attributable to noncontrolling interest	(200,000)
Net income (loss) attributable to parent	800,000

Fragment #4:

Net income (loss) attributable to parent	800,000
Net income (loss) attributable to noncontrolling interest	200,000
Net income (loss)	1,000,000

If a human was interpreting those four different fragments above, what is the difference in interpretation would you expect? Most likely none. Clearly, each of the fragments communicates the same facts, the same information. While the

presentation of the information in each fragment is different, the meaning or representation of the facts articulated is identical.

Imagine having to write an explanation which a software developer would use to get a computer application to correctly interpret each of these four fragments. Imagine that someone came up with a fifth approach for articulating this information. The point here is that while the way this information can be presented is arbitrary, the information itself is standard. A standard is defined as “used or accepted as normal or average; something established by authority, custom, or general consent as a model or example.” One standard makes machine interpretation trivial.

For example, while an accountant might label a line item “Less allowance for doubtful accounts:” and either show “1000” or “(1000)” for a value, information represented for computer use may not work this way and provide meaningful, unambiguous information. A good example of this is how dividends is provided within an XBRL-based financial report. There is no situation where dividends can have a negative value per the definition of the concept “us-gaap:Dividends”. The documentation and balance attribute clearly indicate this.

HINT: An all too common mistake is to report dividends as a negative number because the presentation is negative. Dividends, and numerous other concepts, may never be negative in order to allow for unambiguous interpretation by software applications.

A rendering engine can present information in many, many different ways as long as the information meaning can first be interpreted correctly.

1.8. Recognize that a financial report must be a true and fair representation

Clearly the financial information provided by an economic entity within a financial report must not be “untrue” or “unfair”. As such, then a financial report must be “true” and “fair”. These are not ideas defined by XBRL, the SEC, or even the US GAAP XBRL Taxonomy. These are ideas expressed in the conceptual framework of financial reporting for US GAAP. The conceptual framework of US GAAP uses the term “faithful representation”. The conceptual framework states that a faithful representation is complete, neutral, and free from error. Historically, it has been the case that professional accountants needed to only represent financial information on paper correctly; but now professional accountants need to also create an appropriate *representation* of the information using the XBRL-based structured format.

HINT: Don’t confuse the external reporting manager’s responsibility to create a true and fair representation with the third-party auditor’s responsibility to make sure the financial report is “presented fairly in all material respects”. These are two different ideas.

1.9. Recognize that financial reports contain a discrete identifiable set of report elements which have specific properties and relations

A financial report may be broken down into a discrete identifiable set of report fragments which are organized together for some purpose. For example, a balance sheet is a discrete report fragment which reports assets and liabilities and equity.

Here is information about the report elements of 6,644 XBRL-based financial filings, all of which are 10-K filings, filed with the SEC:

Reported facts:

Reports Count	Reported Facts	Extension Facts	Average Facts Per Report	Average Extension Rate
6,674	8,532,275	1,530,331	1,278	17.94%

Breakdown of report elements:

Reports	Networks	Tables	Axis	Members	LinItems	Abstract	Concepts
6,674	477,041	232,233	386,915	1,210,860	232,693	737,943	3,165,250

Average report elements by report:

Networks	Tables	Axis	Members	LinItems	Abstract	Concepts
71	35	58	181	35	111	474

Breakdown by networks of disclosure/statement; detail/text block:

Category	SubCategory	Networks	Report elements	Tables	Axis	Members	LinItems	Abstracts	Concepts
Document	Detail	6,418	104,619	1,917	1,829	2,809	1,934	6,213	89,917
Document	TextBlock	15	116	1	1	1	1	10	102
Statement	Detail	42,529	1,097,965	22,727	25,084	77,772	22,784	153,331	796,267
Statement	TextBlock	49	473	5	5	18	5	98	342
Disclosure	Detail	276,750	4,330,342	183,241	334,526	1,088,678	183,547	425,423	2,114,939
Disclosure	TextBlock	149,161	397,655	23,101	23,745	27,568	23,181	149,222	150,838
Schedule	Detail	1,326	32,931	1,201	1,684	13,943	1,201	2,851	12,051
Schedule	TextBlock	793	1,781	40	41	71	40	795	794

The point here is that you are not managing one big thing when creating an XBRL-based digital financial report. What you are managing is lots of little things. Many times one thing relates to some other thing. That relationship must be both intact and correctly represented. Relations must be logical and sensible. Business rules express those relations. Automated processes can leverage those business rules. But for automated processes to work, they need to have the business rules expressed so that software can use those rules. No computer readable business rules = manual process must be used. Manual process = increase cost and increased probability for error. There are many, many little pieces. Managing all these pieces manually simply cannot work.

1.10. Recognize that digital financial report elements can be categorized into common groups which have common relevant properties

All these little pieces of an XBRL-based digital financial report can be given names. Those pieces can be categorized into useful groupings. The report elements of a digital financial report can be categorized or grouped into a discreet set of categories which have the same properties: Network, [Table], [Axis], [Member], [Line Items], Concept, and [Abstract]¹¹.

This implies that using the term “tag” to discuss something which is contained within a digital financial report is not appropriate because a more precise term would exist. The term “tag” is a syntax term which has imprecise meaning. Likewise the term “element” is not appropriate because one of the more precise categories provides better information as to what you are referring to.

- **Network:** A network is a one approach to break an XBRL-based financial filing into smaller pieces. There are two reasons why you might need to break a financial filing into pieces: because you want to or because you have to. Networks are not necessary for understanding information. However, the SEC Interactive Data Viewer and other rendering applications do use them, sometimes in different ways. Networks help to order or sequence reported information. In XBRL-based financial filings, networks have a **number**, a **sort category**, and a **title**. For example, "100001 - Statement - Balance Sheet". The number and the sort category help to articulate the flow of the financial filing.
- **Table:** A table is used to combine facts which go together for some specific reason. Tables are comprised of axis and line items. The line items of a table share the axis defined within a table. There are two types of tables: explicit tables and implicit tables. An explicit table always has at least one explicit axis; it could have more than one. An explicit table always has one set of line items.
- **Axis:** An axis is a means of providing information about the characteristics of a fact reported within a financial report.
- **Member:** A member is a possible value of an [Axis]. A [Member] is always part of a domain of an [Axis], thus the term "member" (i.e. of the domain or set; a domain is simply a set of [Member]s which relates to a specific [Axis]). Members of an [Axis] tend to be cohesive and share a certain common nature.
- **Line Items:** [Line items] are a set of concepts which can be reported by an entity, they can contain values. [Line Items] may also contain [Abstract] concepts which can never report values but rather are used to help organize the [Line Items].
- **Concept:** A concept refers to a financial reporting concept or a non-financial concept which can be reported as a fact within an XBRL-based financial filing. A concept is sometimes referred to as a concrete concept, as compared to an abstract concept (see next report element). [Line Items] contain Concepts

¹¹ These terms are used by the US GAAP Taxonomy Architecture, see <http://xbrl.us/Documents/SECOFM-USGAAPT-Architecture-20080428.pdf>

organized within a component which have the same information model. Concepts can be concrete (meaning they can be reported) or abstract (meaning that they are never reported; they are only used to organize the concepts contained within a set of line items).

- **Abstract:** An Abstract is a class of Concept. Abstracts are used for organization and can never be reported. Abstracts can be used within a [Line Items] or it can be used to organize the Tables within a Network.

HINT: The [Line Items] is in essence a special type of [Axis] which articulates the concept characteristic of a reported fact.

HINT: While the reporting entity and period are not called [Axis], they act exactly like an [Axis] to characterize reported facts. The reporting entity and period are implied [Axis]. The reporting entity indicates the CIK number of the reporting entity. The period indicates the calendar period of a reported fact.

HINT: A [Domain] is not a type of report element. A [Domain] as used by the US GAAP XBRL Taxonomy and XBRL-based financial filings is a [Member] which is the root of a domain of members. A domain is simply a set of members.

1.11. Recognize that each category of report elements has allowed and disallowed relations

We pointed out that an XBRL-based financial filing is made up of report elements. Those report elements can be categorized: Network, Table, Axis, Member, LineItems, Abstract, and Concept. The categories of report elements have valid and invalid relations with one another.

These relationships are referred to as the report level model structure or representation structure¹². The top part of the graphic below shows the relations which are OK, which are disallowed, and which are not advised. The bottom part of the graphic shows information about the number of these relations within the set of 6,644 XBRL-based financial filings analyzed.

¹² *Report level model structure*, <http://xbrl.squarespace.com/journal/2014/3/16/report-level-model-structure-update-insights-obtained.html>

		LAX Model, SEC filers supported						
		Parent						
		Network	Table	Axis	Member	Lineltms	Abstract	Concept
Child	Network	Illegal XBRL	Illegal XBRL	Illegal XBRL	Illegal XBRL	Illegal XBRL	Illegal XBRL	Illegal XBRL
	Table	OK	Disallowed	Disallowed	Disallowed	Disallowed	OK	Disallowed
	Axis	Disallowed	OK	Disallowed	Disallowed	Disallowed	Disallowed	Disallowed
	Member	Disallowed	Disallowed	OK	OK	Disallowed	Disallowed	Disallowed
	Lineltms	Disallowed	OK	Disallowed	Disallowed	Disallowed	Disallowed	Disallowed
	Abstract	OK	Disallowed	Disallowed	Disallowed	OK	OK	Not advised
	Concept	Not advised	Disallowed	Disallowed	Disallowed	OK	OK	Not advised
		LAX Model, SEC filers supported						
		Parent						
		Network	Table	Axis	Member	Lineltms	Abstract	Concept
		477,041	232,230	386,912	1,216,391	232,690	732,409	3,165,249
Child	Network	0	0	0	0	0	0	0
	Table	1,261	1	0	0	45	230,899	24
	Axis	1	386,888	0	0	3	20	0
	Member	3	0	450,091	766,221	4	72	0
	Lineltms	183	232,181	0	0	107	217	2
	Abstract	474,310	22	0	1	113,059	144,471	546
	Concept	46	26	11	137	1,222,427	1,929,257	13,346

For example, Axes are related to Tables, not to Concepts. Your XBRL-based financial filing should comply with these relations. What would it mean if you found an Axis within a set of LineItems?

HINT: Software can enforce these relations so that business professionals do not create inappropriate relations.

1.12. Recognize that financial reports contain a discrete set of financial report component which can be categorized

A financial report may be broken down into a discrete set of report components, or report fragments, which are organized together for some purpose. Each component is identifiable by the Network and the [Table] that contain the reported facts that make up the component. These report components can be grouped by what the component represents. For example, a balance sheet is a discrete report component. Every public company reports a balance sheet in their financial report and each has a balance sheet component. While there is no way to specifically identify what the component is by the Network and by the [Table]; components can be identified in other ways such as using prototype theory.

Every fact reported in an XBRL-based digital financial report exists with a Network. Facts can never be free floating in a report. Every fact that is not defined within some explicitly defined [Table], exists in an implied table that exists for every Network.

To make this notion clear, consider the fact that the US GAAP XBRL Taxonomy provides a set of Level 3 Disclosure [Text Block]s. Each of those [Text Block]s have

a name. The screen shot below is an application¹³ which allows its user to look at the disclosure made for reporting entities for each of these different Level 3 Disclosure [Text Block]s.

The screenshot shows an application interface for viewing XBRL disclosures. On the left, there is a 'Disclosure Information Model ((Roll Up))' with a search box and a 'Submit' button. Below this is a list of disclosure labels, with '11 Accrued Liabilities [Roll Up] (Unsure if combined current/noncurrent or current only)' selected. The right pane displays the details for this label, including its name, parent topic, documentation, and completion status. Below this, an 'Example Disclosure' is shown for 'Atkore International Holdings Inc. | 2013 | FY'. The example includes a table comparing data for September 27, 2013 and September 28, 2012.

	September 27, 2013	September 28, 2012
Accrued payroll and payroll related	\$ 17	\$ 18
Accrued interest	\$ 11	\$ 10
Accrued transportation costs	\$ 12	\$ 11
Accrued audit and legal fees	\$ 2	\$ 2
Other	\$ 31	\$ 28
Accrued and other current liabilities	\$ 73	\$ 69

Every report component can be identified as representing some specific disclosure.

1.13. Recognize and respect relations between SEC Level 3 Disclosure [Text Block]s and SEC Level 4 Detail disclosures

Recognize that relations exist between the SEC Level 3 [Text Block]s and SEC Level 4 detailed disclosures within an XBRL-based financial filing. The two disclose the same information, just at different levels of detail.

Consider this example which will explain what is meant. The example provided below comes from this XBRL-based financial filing by Microsoft:

<http://www.sec.gov/Archives/edgar/data/789019/000119312513310206/0001193125-13-310206-index.htm>

This is Microsoft's disclosure of the items which make up property, plant and equipment provided as an SEC Level 3 [Text block] *us-gaap:PropertyPlantAndEquipmentTextBlock*.

¹³ You can use the application to view the report components at this URL:
<http://www.xbrlsite.com/LinkedData/Exemplars/Disclosures2.aspx>

Component: (Network and Table)	
Network	1040 - Disclosure - Property and Equipment (Tables) (http://www.microsoft.com/taxonomy/role/NotesToFinancialStatementsPropertyPlantAndEquipmentDisclosureTextBlockTables)
Table	Statement [Table]

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0000789019 (http://www.sec.gov/CIK)
Legal Entity [Axis]	Entity [Domain]

Statement [Line Items]	Period [Axis]	
	2012-07-01 - 2013-06-30	
Components of Property and Equipment	The components of property and equipment were as follows:	
	(In millions)	
	June 30,	2013 2012
Land	\$ 525	\$ 528
Buildings and improvements	7,326	6,768
Leasehold improvements	2,946	2,550
Computer equipment and software	9,242	7,298
Furniture and equipment	2,465	2,087
Total, at cost	22,504	19,231
Accumulated depreciation	(12,513)	(10,962)
Total, net	\$ 9,991	\$ 8,269

Here is the same information provided as an SEC Level 4 disclosure with the bottom line value (i.e. Total, net) of this disclosure being the concept *us-gaap:PropertyPlantAndEquipmentNet*.

Component: (Network and Table)	
Network	1071 - Disclosure - Components of Property and Equipment (Detail) (http://www.microsoft.com/taxonomy/role/DisclosureComponentsOfPropertyAndEquipment)
Table	Property, Plant and Equipment [Table]

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0000789019 (http://www.sec.gov/CIK)
Legal Entity [Axis]	Entity [Domain]

Property, Plant and Equipment [Line Items]	Period [Axis]	
	2013-06-30	2012-06-30
Land	525,000,000	528,000,000
Buildings and improvements	7,326,000,000	6,768,000,000
Leasehold improvements	2,946,000,000	2,550,000,000
Computer equipment and software	9,242,000,000	7,298,000,000
Furniture and equipment	2,465,000,000	2,087,000,000
Total, at cost	22,504,000,000	19,231,000,000
Accumulated depreciation	(12,513,000,000)	(10,962,000,000)
Total, net	9,991,000,000	8,269,000,000

This relationship is not a coincidence and is not unique to the property, plant, and equipment details disclosure. The PDF below points to an analysis of the property, plant and equipment details disclosure for numerous XBRL-based financial filings:

<http://www.xbrlsite.com/2014/Library/PropertyPlantAndEquipmentNetByTypeRollUp.pdf>

As the analysis shows, the SEC Level 3 Disclosure Text Blocks and SEC Level 4 Detailed disclosure are synchronized in the vast majority of property, plant, and equipment details disclosure.

This blog post shows similar analysis for a hand full of other disclosures:

<http://xbrl.squarespace.com/journal/2014/6/24/mind-boggling-diversity-of-sec-xbrl-financial-filings.html>

For example, here another disclosure: Property, plant and equipment estimated useful lives. Here is the SEC Level 3 Disclosure Text Block disclosure, the filers concept for this SEC Level 3 text block was

ncs:ScheduleOfUsefulLivesPropertyPlantAndEquipmentTableTextBlock, an extension.

Estimated useful lives for depreciation are:

Buildings and improvements	10 – 39 years
Machinery, equipment and furniture	3 – 15 years
Transportation equipment	4 – 10 years
Computer software and equipment	3 – 7 years

And here is the SEC Level 4 detailed disclosure of the same information, the concept used by the filer was *us-gaap:PropertyPlantAndEquipmentUsefulLife*.

Component: (Network and Table)	
Network	159 - Disclosure - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Details 4) (http://www.ncip.com/role/SummaryOfSignificantAccountingPoliciesDetails4)
Table	Schedule Of Summary Of Significant Accounting Policies [Table]

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0000883902 (http://www.sec.gov/CIK)
Period [Axis]	2012-10-29 - 2013-11-03

Summary Of Significant Accounting Policies [Line Items]	Property, Plant and Equipment, Type [Axis]							
	Building and Building Improvements [Member]		Machinery and Equipment [Member]		Transportation Equipment [Member]		Computer Software and Equipment [Member]	
	Range [Axis]		Range [Axis]		Range [Axis]		Range [Axis]	
	Maximum [Member]	Minimum [Member]	Maximum [Member]	Minimum [Member]	Maximum [Member]	Minimum [Member]	Maximum [Member]	Minimum [Member]
Property, Plant and Equipment, Useful Life	P39Y	P10Y	P15Y	P3Y	P10Y	P4Y	P7Y	P3Y

<http://www.sec.gov/Archives/edgar/data/883902/000114420413068730/0001144204-13-068730-index.htm>

The point is that a similar relation exists for this disclosure and other disclosures. Further, while it is beyond the scope of this document; comparing and contrasting disclosures raises many, many questions which accountants expressing this information should be aware of.

For example with regard to the property, plant and equipment estimated useful lives disclosure: the fact that so many filers created an extension concept for the SEC Level 3 text block or used an obviously incorrect concept to express this disclosure, it is clear that this SEC Level 3 text block is missing from the US GAAP XBRL Taxonomy. Also, if you consider the property, plant and equipment estimated useful lives disclosure and then look at the finite-lived intangible assets estimated useful

lives disclosure; you realize that that SEC Level 3 text block is likewise missing from the taxonomy.

HINT: The US GAAP XBRL Taxonomy has many missing SEC Level 3 [Text Block]s. As such, it may seem hard to match the Level 3 [Text Block] and SEC Level 4 detail disclosures. What many filers do is try to find “some text block which is close”. This causes two problems. First, it causes your text block to not match the disclosures of others who are using this text block properly. Basically, you will be inconsistent with other SEC filings. Second, it makes it harder to discover text blocks which are missing from the US GAAP XBRL Taxonomy. It is better to create an extension concept than use an inappropriate concept.

HINT: In XBRL-based financial filings, some filers provide the property, plant, and equipment details disclosure using the text block used by most others, the concept *us-gaap:PropertyPlantAndEquipmentTextBlock*. However, rather than the SEC Level 4 detail disclosure having the most commonly used concept *us-gaap:PropertyPlantAndEquipmentNet*, the filers use the concept *us-gaap:PropertyPlantAndEquipmentGross*. What does this mean? Is this intended by the US GAAP XBRL Taxonomy, or is this a mistake? Another similar situation is where some filers use the same SEC Level 3 [Text Block] to express information which is current with other SEC filers using that same SEC Level 3 [Text Block] to disclose information which is noncurrent in the Level 4 detailed representation. Is this intended or is it an oversight? It seems rather odd that the same SEC Level 3 [Text Block] would be used to express different SEC Level 4 detail disclosures.

Another thing to consider is that the US GAAP XBRL Taxonomy provides two different approaches to expressing detailed information in many cases. One way is to differentiate reported facts using concepts. Another way is to express information using one concept, but than an [Axis] and [Member] to differentiate reported facts. Here is an example of the concept based approach:

Component: (Network and Table)	
Network	1071 - Disclosure - Components of Property and Equipment (Detail) (http://www.microsoft.com/taxonomy/role/DisclosureComponentsOfPropertyAndEquipment)
Table	Property, Plant and Equipment [Table]

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0000789019 (http://www.sec.gov/CIK)
Legal Entity [Axis]	Entity [Domain]

Property, Plant and Equipment [Line Items]	Period [Axis]	
	2013-06-30	2012-06-30
Land	525,000,000	528,000,000
Buildings and improvements	7,326,000,000	6,768,000,000
Leasehold improvements	2,946,000,000	2,550,000,000
Computer equipment and software	9,242,000,000	7,298,000,000
Furniture and equipment	2,465,000,000	2,087,000,000
Total, at cost	22,504,000,000	19,231,000,000
Accumulated depreciation	(12,513,000,000)	(10,962,000,000)
Total, net	9,991,000,000	8,269,000,000

And here is an example of the single concept differentiated using an [Axis] and [Member]s:

Component: (Network and Table)	
Network	4090 - Disclosure - Property and Equipment (Details) (http://www.ascentmediacorporation.com/role/DisclosurePropertyAndEquipmentDetails)
Table	Schedule of Property, Plant and Equipment [Table]

Slicers (applies to each fact value in each table cell)

Reporting Entity [Axis]	0001437106 (http://www.sec.gov/CIK)
-------------------------	--

Property and Equipment	Period [Axis]							
	2012-01-01 - 2012-12-31				2011-01-01 - 2011-12-31			
	Property, Plant and Equipment, Type [Axis]				Property, Plant and Equipment, Type [Axis]			
	Land [Member]	Building and Leasehold Improvements [Member]	Machinery and Equipment and Software [Member]	Property, Plant and Equipment, Type [Domain]	Land [Member]	Building and Leasehold Improvements [Member]	Machinery and Equipment and Software [Member]	Property, Plant and Equipment, Type [Domain]
Property and equipment, gross	23,170,000	35,206,000	28,685,000	87,061,000	34,896,000	54,575,000	22,763,000	112,234,000
Accumulated depreciation				(30,570,000)				(37,537,000)
Property and equipment, net				56,491,000				74,697,000

Both approaches articulate the same meaning or information. Each approach has its pros and cons. But these two approaches raise the question of whether the US GAAP XBRL Taxonomy should have one text block or two text blocks, one for each detailed approach.

HINT: The two approaches of representing property, plant, and equipment information (the first using [Line Items], the second using [Member]s of an

[Axis]) are semantically equivalent even though they use different XBRL technical syntax approaches.

Another issue which is raised relates to the following example. Suppose a filer decides to provide the property, plant and equipment details on the balance sheet. Does this mean that the SEC Level 3 text block is or is not required?

Property and equipment		
Land	6,234,000,000	6,206,000,000
Buildings and improvements	30,356,000,000	28,653,000,000
Fixtures and equipment	5,583,000,000	5,362,000,000
Computer hardware and software	2,764,000,000	2,567,000,000
Construction-in-progress	843,000,000	1,176,000,000
Accumulated depreciation	(14,402,000,000)	(13,311,000,000)
Property and equipment, net	31,378,000,000	30,653,000,000
Other noncurrent assets	1,602,000,000	1,122,000,000
Total assets	44,553,000,000	48,163,000,000

Again, keep in mind that while the discussion focused on specific disclosures here, property, plant and equipment; these situations exist for virtually every disclosure and there are about a thousand different disclosures.

1.14. Recognize the existence of and properly respect and represent intersections between financial report components

Financial report fragments, or as we said the components which make up a financial report, can be intersected with one or more other report components. For example, "Inventories" summarized in the balance sheet might be detailed within a disclosure contained within a note to the financial report. The "Total inventories" concept is the intersection between the summary and detail report components. The screen show below shows the two occurrences of the fact "Inventories" in a financial report:

The screenshot shows a financial report interface with a table of assets and liabilities. A pop-up window titled "Fact Characteristics and Properties" is open, showing a table of components containing the fact "Inventories".

Current assets [Roll Up]	
Cash, cash equivalents, and marketable securities [Roll Up]	
Cash and cash equivalents	11,000,000
Marketable securities	9,000,000
Cash, cash equivalents, and marketable securities	20,000,000
Accounts receivable, net of allowance for doubtful accounts of \$1,000 and \$1,000	29,000,000
Inventories	4,000,000
Prepaid expenses	
Total	
Noncurrent assets [Roll Up]	
Property, plant and equipment, net	
Deferred costs	
Total noncurrent assets	
Liabilities and Equity [Roll Up]	
Current liabilities [Roll Up]	
Accounts payable	3,000,000
Other liabilities	4,000,000

The pop-up window "Fact Characteristics and Properties" shows the following table:

Properties	Occurrences	To Do
Components containing this fact.		
Network		Table
2001 - Statement - Balance Sheet		Balance Sheet [Table]
5040 - Disclosure - Inventory Components		Inventory Components [Table]

Below you see a summary (the balance sheet) and detail (the property, plant and equipment details breakdown).

Balance sheet:

Reporting Entity [Axis]	0000000001 (http://www.sec.gov/CIK)	
Legal Entity [Axis]	Consolidated Entity [Domain]	
Balance Sheet [Line Items]	Period [Axis]	
	2012-12-31	2011-12-31
Assets [Roll Up]		
Current assets [Roll Up]		
Cash, cash equivalents, and marketable securities [Roll Up]		
Cash and cash equivalents	11,000,000	10,000,000
Marketable securities	9,000,000	10,000,000
Cash, cash equivalents, and marketable securities	20,000,000	20,000,000
Accounts receivable, net of allowance for doubtful accounts of \$1,000 and \$1,000	29,000,000	29,000,000
Inventories	4,000,000	4,000,000
Prepaid expenses	3,000,000	3,000,000
Total current assets	56,000,000	56,000,000
Noncurrent assets [Roll Up]		
Property, plant and equipment, net	82,000,000	82,000,000
Deferred costs	9,000,000	9,000,000
Total noncurrent assets	91,000,000	91,000,000
Total assets	147,000,000	147,000,000
Liabilities and Equity [Roll Up]		
Current liabilities [Roll Up]		
Accounts payable	3,000,000	3,000,000
Accrued liabilities	4,000,000	4,000,000
Current portion of long-term debt	22,000,000	22,000,000
Product warranty accrual, current portion	26,000,000	26,000,000

Property, plant, and equipment breakdown:

Reporting Entity [Axis]	0000000001 (http://www.sec.gov/CIK)		
Legal Entity [Axis]	Consolidated Entity [Domain]		
Property, Plant and Equipment [Line Items]	Property, Plant and Equipment, Type [Axis]	Period [Axis]	
		2012-12-31	2011-12-31
Property, Plant and Equipment, Net, by Type [Roll Up]			
Property, plant and equipment, gross	Land [Member]	40,000,000	40,000,000
	Machinery and equipment [Member]	50,000,000	50,000,000
	Furniture and fixtures [Member]	7,000,000	7,000,000
	Property, Plant and Equipment, All Types [Domain]	97,000,000	97,000,000
Accumulated depreciation	Property, Plant and Equipment, All Types [Domain]	(15,000,000)	(15,000,000)
Property, plant, and equipment, net	Property, Plant and Equipment, All	82,000,000	82,000,000

It is challenging to show the notion of an intersection and how useful it is in software applications. This video walks you through what an intersection is and how to view them using the XBRL Cloud Viewer: <http://www.youtube.com/watch?v=INPjwKy2Obs>

HINT: A good way to view intersections is using the free XBRL Cloud Viewer¹⁴.

1.15. Recognize and respect fundamental accounting concepts and unchangeable relations between those accounting concepts

Financial reports contain a “skeleton” which forms a frame for a financial report. Another metaphor is that these fundamental accounting concept relations form the “keystones” of a financial report. They can be thought of as continuity equations to cross-verify information in XBRL-based digital financial reports.

For example, financial reports always contain balance sheets; balance sheets always contain the concepts “Assets” and “Liabilities and Equity”; and a balance sheet always balances. There are some exceptions to this general rule; for example when a statement of net assets is used but this case is simply another reporting option which would be handled by a different rule specific to that reporting circumstance. Exceptions such as this does not mean that there are no rules, it just means that there are different rules. See the section relating to report frames.

And so, universally applicable rules can be created that explain 100% of financial reports once you categorize such reports into appropriate groups.

In addition, this skeleton or fundamental accounting concepts¹⁵ have relations with other fundamental accounting concepts which never change. For example, “Assets” = “Liabilities and Equity” is a relationship which never changes. $\text{Assets} = \text{Current Assets} + \text{Noncurrent Assets}$ is a relationship which never changes.

The fact that a relation exists has nothing to do with whether a reporting entity reported a concept or not. For example, if a reporting entity reported “Assets” and “Current Assets”, the relation “ $\text{Assets} = \text{Current Assets} + \text{Noncurrent Assets}$ ” still holds. In fact, one can leverage that relationship to impute the value of “Noncurrent Assets” using basic mathematics: “ $\text{Noncurrent Assets} = \text{Assets} - \text{Current Assets}$ ”. So while the concept Noncurrent assets might not be reported, that does not mean that the value does not exist.

The verification of the existence of these fundamental accounting concepts and adherence to the specified relations can be automated and enforces using software.

Proof that these fundamental accounting concepts and relations between these concepts exist is XBRL-based financial filings themselves. When one examines public company XBRL-based financial filings provided to the SEC, one sees that 98% of all financial reports have these concepts and relations. This can be observed within the 6,644 XBRL-based financial filings analyzed, all 10-K filings¹⁶, follow this rule. Further, when you look at the XBRL-based reports which do not conform to these rules, the reason for nonconformance can tracked to precisely identifiable reasons for each and every issue and each issue can be attributed to a specific party:

- Quality control issues on part of reporting entity creating XBRL-based digital financial report (i.e. filer error)
- Concepts missing from or ambiguity in US GAAP XBRL Taxonomy (i.e. FASB error)

¹⁴ You can click the blue “View” button and look at any XBRL-based public company financial filing here, <https://edgardashboard.xbrlcloud.com/edgar-dashboard/>

¹⁵ *Fundamental Accounting Concepts*, <http://fundamentalaccountingconcepts.wikispaces.com/>

¹⁶ For details of the analysis see <http://xbrl.squarespace.com/journal/2014/3/16/fundamental-accounting-concepts-update-insights-obtained.html>

- Misinterpretation by filer caused by ambiguity in US GAAP XBRL Taxonomy or EFM rules (i.e. FASB/SEC error)
- Misinterpretation of US GAAP XBRL Taxonomy and/or SEC EFM rules by my software (i.e. FASB/SEC error)
- Errors in my mappings and impute rules used by software when reading and then using digital financial report information (i.e. business rule error)

Here is a screen shot of the income statement of one XBRL-based financial filing which shows how that filing has each of these basic, fundamental accounting concepts and satisfies the relations between each of those fundamental accounting concepts. Visit the link to see the entire set of fundamental accounting concepts for this filing.

Income Statement [Line Items]	Period [Axis]	
	2015-01-01 - 2015-12-31	
	Value	Origin
Net Income (Loss) [Roll Up]		
Income (Loss) from Continuing Operations After Tax [Roll Up]		
Income (Loss) from Continuing Operations Before Tax [Roll Up]		
Operating Income (Loss) [Roll Up]		
Revenues	30,274,000,000	fac:Revenues[us-gaap:SalesRevenueNet[30,274,000,000]]
Costs and Expenses	23,328,000,000	fac:CostsAndExpenses[us-gaap:CostsAndExpenses[23,328,000,000]]
Operating Income (Loss)	6,946,000,000	fac:OperatingIncomeLoss[us-gaap:OperatingIncomeLoss[6,946,000,000]]
Nonoperating Income (Loss) Plus Interest and Debt Expense Plus Income (Loss) from Equity Method Investments	(123,000,000)	fac:NonoperatingIncomePlusInterestAndDebtExpensePlusIncomeFromEquityMethodInvestments[-123,000,000] = fac:IncomeLossFromContinuingOperationsBeforeTax[us-gaap:IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest[6,823,000,000]] - fac:OperatingIncomeLoss[us-gaap:OperatingIncomeLoss[6,946,000,000]]
Income (Loss) from Continuing Operations Before Tax	6,823,000,000	fac:IncomeLossFromContinuingOperationsBeforeTax[us-gaap:IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest[6,823,000,000]]
Income Tax Expense (Benefit)	1,982,000,000	fac:IncomeTaxExpenseBenefit[us-gaap:IncomeTaxExpenseBenefit[1,982,000,000]]
Income (Loss) from Continuing Operations After Tax	4,841,000,000	fac:IncomeLossFromContinuingOperationsAfterTax[4,841,000,000] = fac:IncomeLossFromContinuingOperationsBeforeTax[us-gaap:IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest[6,823,000,000]] - fac:IncomeTaxExpenseBenefit[us-gaap:IncomeTaxExpenseBenefit[1,982,000,000]]
Income (Loss) from Discontinued Operations, Net of Tax	0	fac:IncomeLossFromDiscontinuedOperationsNetOfTax[0] = fac:IncomeLossFromDiscontinuedOperationsNetOfTaxDuringPhaseOut[0] + fac:IncomeLossFromDiscontinuedOperationsNetOfTaxGainLossOnDisposal[0] + fac:IncomeLossFromDiscontinuedOperationsNetOfTaxProvisionForGainLossOnDisposal[0] + fac:IncomeLossFromDiscontinuedOperationsNetOfTaxAdjustmentToPriorYearGainLossOnDisposal[0]
Extraordinary Items of Income (Expense), Net of Tax	0	fac:ExtraordinaryItemsOfIncomeExpenseNetOfTax[0] = 0
Net Income (Loss)	4,841,000,000	fac:NetIncomeLoss[us-gaap:ProfitLoss[4,841,000,000]]

The fact that 98% of all concepts and relations are conformed to is interesting. What is more interesting is to look at the conformance to individual relations. Below you can see the relation code, the most current result of testing of these relations on the complete set of public company XBRL-based financial filings, a description of the relation, and comments about the specific relation:

Code	% Conforms	Relation description	Comments
BS1	98.5	Equity = Equity Attributable to Parent + Equity Attributable to Noncontrolling Interest	
BS2	99.7	Assets = Liabilities and Equity	
BS3	96.5	Assets = Current Assets + Noncurrent Assets (classified balance sheet)	
BS4	98.3	Liabilities = Current Liabilities + Noncurrent Liabilities (classified balance sheet)	
BS5	96.0	Liabilities and Equity = Liabilities + Commitments and Contingencies + Temporary Equity + Redeemable Noncontrolling Interest + Equity	

IS1	93.3	Gross Profit = Revenues - Cost Of Revenue (Multi-step approach)	Not applicable to all entities. Alternatively, entities can report using single step approach.
IS2	95.8	Operating Income (Loss) = Gross Profit - Operating Expenses + Other Operating Income (Expenses) (Multi-step approach)	Not applicable to all entities. Alternatively, entities can report using single step approach.
IS3	92.2	Income (Loss) from Continuing Operations Before Equity Method Investments = Operating Income (Loss) + Nonoperating Income (Loss) - Interest And Debt Expense	Not applicable to all entities. Alternatively, entities may not report Operating Income (Loss).
IS4	99.3	Income (Loss) from Continuing Operations Before Tax = Income (Loss) from Continuing Operations Before Equity Method Investments + Income (Loss) from Equity Method Investments	Not applicable to all entities. Alternatively, entities put Income (Loss) from Equity Method Investments after tax, within revenues, and a handful of other locations.
IS5	91.9	Income (Loss) from Continuing Operations after Tax = Income (Loss) from Continuing Operations Before Tax - Income Tax Expense (Benefit)	
IS6	92.2	Net Income (Loss) = Income (Loss) from Continuing Operations After Tax + Income (Loss) from Discontinued Operations, Net of Tax + Extraordinary Items, Gain (Loss)	
IS7	94.7	Net Income (Loss) = Net Income (Loss) Attributable to Parent + Net Income (Loss) Attributable to Noncontrolling Interest	
IS8	99.6	Net Income (Loss) Available to Common Stockholders, Basic = Net Income (Loss) Attributable to Parent - Preferred Stock Dividends and Other Adjustments	
IS9	98.1	Comprehensive Income (Loss) = Comprehensive Income (Loss) Attributable to Parent + Comprehensive Income (Loss) Attributable to Noncontrolling Interest	
IS10	96.4	Comprehensive Income (Loss) = Net Income (Loss) + Other Comprehensive Income (Loss)	
CF1	96.0	Net Cash Flow = Net Cash Flows, Operating + Net Cash Flows, Investing + Net Cash Flows, Financing + Exchange Gains (Losses)	Alternately, approximately 126 entities do not include Exchange Gains (Losses) within Net Cash Flow.
CF2	97.0	Net Cash Flows, Continuing = Net Cash Flows, Operating, Continuing + Net Cash Flows, Investing, Continuing + Net Cash Flows, Financing, Continuing	
CF3	99.6	Net Cash Flows, Discontinued = Net Cash Flows, Operating, Discontinued + Net Cash Flows, Investing, Discontinued + Net Cash Flows, Financing, Discontinued	
CF4	99.6	Net Cash Flows, Operating = Net Cash Flows, Operating, Continuing + Net Cash Flows, Operating, Discontinued	
CF5	99.9	Net Cash Flows, Investing = Net Cash Flows, Investing, Continuing + Net Cash Flows, Investing, Discontinued	
CF6	99.9	Net Cash Flows, Financing = Net Cash Flows, Financing, Continuing + Net Cash Flows, Financing, Discontinued	

HINT: You don't want to turn discovering the fundamental information into a guessing game. You want to make it safe for software applications to gather information. If software cannot sort out this fundamental information, it is unlikely that software will be able to sort out the details. Also, these fundamental concepts are just that, fundamental. There are more of these sorts of relations. These relations are simply a starting point.

1.16. Recognize that every financial report has one reporting style and the different economic entities reporting may use different reporting styles

A report frame¹⁷ or reporting style is simply the notion that every financial report has a high-level pattern of fundamental accounting concept relations. If you recognize what that pattern is, the reporting style information can be leveraged.

The financial reports of economic entities can be grouped into high level patterns of variability¹⁸. Comprehensive analysis of all XBRL-based public company financial filings at this very high level revealed a very limited amount of variability most of which occurs on the income statement. This variability is not random, patterns exist. The following is a summary of and a complete inventory of this variability at this high-level of a financial report:

- Entities report using some accounting industry or activity
 - Commercial and industrial (standard approach)
 - Interest based revenues
 - Insurance based revenues
 - Securities based revenues
 - REIT (real estate investment trust)
 - Regulated utility
- Balance sheets can be
 - Classified (report current and noncurrent assets and liabilities)
 - Unclassified
 - Report using liquidity based reporting
 - Report capitalization (regulated public utility)
- Income statements can be
 - Multi-step and report gross profit
 - Single-step and do not report gross profit
- Income statements can
 - Explicitly report operating income (loss)
 - Do not report operating income (loss) explicitly
- Income (loss) from equity method investments can be reported on the income statement
 - As part of revenues
 - As part of cost of revenues
 - As part of nonoperating income (loss)
 - Before taxes as a separate line item
 - Between income (loss) from continuing operations before and after taxes
- Cash flow statements can report net cash flow as
 - Including exchange gains (losses)
 - Not including exchange gains (losses)
- Statement of comprehensive income can start with the net income (loss) concept
 - Net income (loss)
 - Net income (loss) attributable to parent

¹⁷ See, <http://www.xbrl.com/2014/Prototype/ReportFrames/ReportFrames.html>

¹⁸ For a detailed analysis of how report frames were derived, please see this resource, <http://www.xbrl.com/2014/Library/SummaryInformationAboutConformanceWithFundamentalAccountingConceptRelations.pdf>

- Net income (loss) available to common stockholders

This is a comprehensive and complete inventory of the high level variability in public company financial filings. This information is not a statistical analysis or speculation. This is observable empirical evidence provided by the XBRL-based public company financial filings submitted to the SEC.

A coding scheme was developed to articulate this information in both human readable and machine readable form. Below is a brief description of that coding scheme. Each code has six parts: “COMID-BSC-CF1-ISS-IEMIB-OILY”. One additional part is sometimes added to the six that always exist. This explains each part and the codes used for each part and shows the number of entities which have that characteristic (note that the totals add up to 6,943 and not 6,647; this relates to an issue with CIK numbers):

- **Part 1: Industry codes: (Total 6,943)**
 - COMID=Commercial and Industrial (5,985)
 - INTBX=Interest based revenues (632)
 - INSBX=Insurance based revenues (50)
 - SECBX=Securities based revenues (93)
 - REITX=Real estate investment trust (158)
 - UTILX=Utility (25)
- **Part 2: Balance sheet form codes: (Total 6,943)**
 - BSC=Classified balance sheet (5,527)
 - BSU=Unclassified balance sheet (1,412)
 - BSL=Liquidity based balance sheet (4)
- **Part 3: Cash flow statement exchange gains codes: (Total 6,943)**
 - CF1=Exchange gains (losses) part of net cash flow or does not report line item (6,845)
 - CF2=Exchange gains (losses) part of cash roll forward (98)
- **Part 4: Income statement form codes: (Total 6,943)**
 - ISS=Single step income statement (4,255)
 - ISM=Multi step income statement (2,688)
- **Part 5: Income (loss) from equity method investments location codes: (Total 6,943)**
 - IEMIX=Income (loss) from equity method investments not reported (5,290)
 - IEMIB=Income (loss) from equity method investments reported BEFORE tax (1,402)
 - IEMIN=Income (loss) from equity method investments reported within nonoperating income (loss) (122)
 - IEMIR=Income (loss) from equity method investments reported within revenues (16)
 - IEMIT=Income (loss) from equity method investments reported between income (loss) from continuing operations before and after taxes (113)
- **Part 6: Operating income (loss) codes: (Total 6,943)**
 - OILY=Operating income (loss) reported (5,120)
 - OILN=Operating income (loss) not reported (1,823)

While the complete set of codes and report styles cannot be known until the process of breaking public company filings into these sets and testing each filing and set as to their conformance to the fundamental accounting concepts and relations within the set and the success of this process is verified by 100% conformance by each

reporting entity to 100% of the fundamental accounting concepts and relations between those concepts within each set; this is achievable.

In fact, testing shows that this objective has already been achieved for 98.7% of relations and 81% of all public company financial reports submitted to the SEC using the XBRL format. Further, which reporting entities do not conform to these concepts and relations and why they do not conform is easy to observe.

Another possibility which exists in order to manage this process is simply to remove sets of reporting entities from scope. For example, I have already removed entities which are funds and trusts from scope because I personally have no interest in such entities. Also, there are five entities which I classify as “hybrids” because they report using significantly more complex reporting schemes. Basically, certain report frames can be simply removed from scope.

Finally, report frames can be created for economic entities that have unique reporting styles specific to that economic entity. And so, the point is that every economic entity fits into the notion of reporting styles.

1.17. Recognize and respect common financial report fragment arrangement patterns

A financial report can be broken down into report fragments or pieces. I call these report fragments or pieces by the name of component. Financial report components are related to other financial report components. The discrete set of components which make up a financial report can have a “sequence” or “ordering” or some arrangement. Further, groups of report components exist such as “statement”, “disclosure”, etc., and are that way are also related.

The SEC interactive data viewer leverages these relations. The SEC viewer also leverages the numbers provided for each network to organize the components of the report. The SEC interactive data viewer separates Level 1 (note level) [Text Block]s, Level 2 accounting policy [Text Block]s, Level 3 (disclosure level) [Text Block]s, and Level 4 detailed disclosures. You can see this leverage in the contents page of the left side of the SEC interactive data viewer. Other viewers likewise leverage this information for sequencing and ordering a digital financial report.

Document And Entity Information (USD \$)	
Document Information [Line Items]	
Entity Registrant Name	NET TALK.COM, INC.
Entity Central Index Key	0001383825
Current Fiscal Year End Date	--12-31
Entity Filer Category	Smaller Reporting Company
Trading Symbol	NTLK
Entity Common Stock: Shares Outstanding	
Document Type	10-K
Amendment Flag	false
Document Fiscal Year Focus	2012
Document Period End Date	Dec. 31, 2012
Document Fiscal Period Focus	FY
Entity Well-known Seasoned Issuer	No
Entity Voluntary Filers	No
Entity Current Reporting Status	No
Entity Public Float	
[1] The aggregate market value of common equity held-by non-affiliates is comp	

1.18. Recognize and respect common concept arrangement patterns which indicate how a set of concepts are organized within a [Line Items]

The set of accounting concepts which make up [Line Items] are not random; rather they can be grouped into a set of patterns referred to as *concept arrangement patterns*. A set of [Line Items] might have one or more sets of concept arrangement patterns. If more than one concept arrangement pattern exists, you can think of each set as a component block¹⁹. Identified and commonly used concept arrangement patterns include:

- **Roll up:** A concept arrangement pattern with the following form: Fact A + Fact B + Fact C + Fact N = Fact D (a total)
- **Roll forward:** A concept arrangement pattern with the following form: Beginning balance + one or more changes = Ending balance
- **Adjustment:** A concept arrangement pattern with the following form: Originally stated balance + one or more adjustments = restated balance
- **Variance:** A concept arrangement pattern with the following form: Actual amount – Budgeted amount = Variance. A variance is a change across a reporting scenario.
- **Complex computation:** A complex computation is a type of concept arrangement pattern where facts are related by some computation other than a roll up, roll forward, adjustment, or variance. For example, Net income / Weighted average shares = Earnings per share.
- **Hierarchy:** A hierarchy is a type of concept arrangement pattern where facts are related in some way, but not mathematically. For example, a set of accounting policies is related in that they are accounting policies, but they have no mathematical relation.
- **Text block:** A [Text Block] is a type of concept arrangement pattern where there is only one fact reported in the form of a [Text Block].

For example, roll up:

Maturities of Long-term Debt [Line Items]	Period [Axis]
	2010-12-31
Maturities of Long-term Debt [Roll Up]	
Current	22,000,000
2012	1,000,000
2013	1,000,000
2014	1,000,000
2015	1,000,000
Thereafter	15,000,000
Total	41,000,000

¹⁹ *Understanding Blocks, Slots, Templates and Exemplars*,
<http://xbrl.squarespace.com/journal/2015/5/11/understanding-blocks-slots-templates-and-exemplars.html>

HINT: Some rendering engines understand more concept arrangement patterns better than others. Some rendering engines separate component blocks better than others.

1.19. Recognize and respect common member arrangement patterns

The set of [Member]s which make up the domain of an [Axis] are not random; they can be grouped into a set of common *member arrangement patterns*. These member arrangement patterns can be broken down into three groups:

- **Whole-part:** something composed exactly of their parts and nothing else; the sum of the parts is equal to the whole (roll up).
- **Is-a:** descriptive and differentiates one type or class of thing from some different type or class of thing; but the things do not add up to a whole.
- **Computational business rule:** Other types of computational business rules can exist such as "Originally stated balance + adjustments = Restated balance" or "Net income (loss) / Weighted average shares = Earnings per share"

Mereology²⁰ is the theory of parthood relations: of the relations of part to whole and the relations of part to part within a whole. The document *A Taxonomy of Part-Whole Relations*²¹ is an excellent reference for understanding these sorts of breakdowns.

Representing the relations between sets of [Member]s has issues in XBRL. While XBRL does provide a means of representing these sorts of relations using XBRL Formula, few taxonomies currently take advantage of that mechanism. And so, it is best that only "flat sets" should be used as the US GAAP Financial Reporting XBRL Taxonomy provides no way of articulating the meaning of relations between [Member]s within a set of [Member]s.

HINT: Only flat sets of [Member]s should be used because XBRL has now specific way, other than XBRL Formula, to articulate a hierarchy of [Member]s. So, rather than creating one [Axis] with a hierarchy, create two [Axis] to express the different hierarchies.

Recognize that there are different types of relationships between [Member]s. One big issue with XBRL presentation relations in general and the US GAAP Taxonomy in particular is the vagueness of the "parent-child" relationship which is used to express relationships.

Basically, the arcrole "<http://www.xbrl.org/2003/arcrole/parent-child>" used to communicate that there is in fact some sort of relationship leaves open to interpretation exactly what that relation is and what the relation means. While what is expressed might be clear to those who use the "parent-child" relationship to express something; the intent tends to not come through, be misinterpreted, be inconsistent because of different people working on different areas of a taxonomy, and in general leads to confusion.

²⁰ Stanford Encyclopedia of Philosophy, *Mereology*, <http://plato.stanford.edu/entries/mereology/>

²¹ *A Taxonomy of Part-Whole Relations*, <http://csjarchive.cogsci.rpi.edu/1987v11/i04/p0417p0444/MAIN.PDF>

HINT: XBRL definition relations can express different types of relations explicitly by defining specific arcroles²².

1.20. Avoid mixing or run-together concept arrangement patterns

Mixing more than one concept arrangement pattern together increases the difficulty of reading disclosure information. While running different patterns together is not illegal per SEC XBRL filing rules, doing this can cause challenges to rendering engines trying to present the information in human readable form and cause information to be hard to comprehend.

For example, mixing a “roll up” and a “roll forward” should be avoided as information appears to run together and is hard to understand. For example, representing a roll up which then runs into a roll forward or two distinct roll ups together without differentiating them should be avoided.

Avoid doing this: (i.e. combining lots of report fragments so that they run together)

Commitments (Details) (USD \$) In Millions, unless otherwise specified	12 Months Ended		
	Oct. 31, 2012	Oct. 31, 2011	Oct. 31, 2010
Commitments			
Rent expense	\$ 1,012	\$ 1,042	\$ 1,062
Sublease rental income	37	38	46
Property under capital lease	882	577	
Accumulated depreciation on property under capital lease	453	454	
Minimum lease payments, sublease rental income			
Minimum lease payments, 2013	780		
Minimum lease payments, 2014	665		
Minimum lease payments, 2015	517		
Minimum lease payments, 2016	351		
Minimum lease payments, 2017	218		
Minimum lease payments, thereafter	805		
Minimum lease payments, total	3,336		
Less: Sublease rental income, 2013	(28)		
Less: Sublease rental income, 2014	(23)		
Less: Sublease rental income, 2015	(18)		
Less: Sublease rental income, 2016	(9)		
Less: Sublease rental income, 2017	(4)		
Less: Sublease rental income, thereafter	(12)		
Sublease rental income, total	(94)		
Minimum lease payments net of sublease rental income, 2013	752		
Minimum lease payments net of sublease rental income, 2014	642		
Minimum lease payments net of sublease rental income, 2015	499		
Minimum lease payments net of sublease rental income, 2016	342		
Minimum lease payments net of sublease rental income, 2017	214		
Minimum lease payments net of sublease rental income, thereafter	793		
Minimum lease payments net of sublease rental income, total	3,242		
Capital lease commitments			
Capital lease commitments, 2013	59		
Capital lease commitments, 2014	240		
Capital lease commitments, 2015	11		
Capital lease commitments, 2016	7		
Capital lease commitments, 2017	4		
Capital lease commitments, thereafter	33		
Capital lease commitments, total	354		
Less: Interest payments, 2013	(8)		
Less: Interest payments, 2014	(6)		
Less: Interest payments, 2015	(3)		
Less: Interest payments, 2016	(2)		
Less: Interest payments, 2017	(2)		
Less: Interest payments, thereafter	(12)		
Interest payments, total	(33)		

²² *State-of-the-art Use of XBRL Definition Relations*, <http://xbrl.squarespace.com/journal/2015/2/18/state-of-the-art-use-of-xbrl-definition-relations-to-express.html>

Instead, do this: (separate report fragments into discrete sets of information)

<http://www.sec.gov/Archives/edgar/data/1285785/000119312512323518/0001193125-12-323518-index.htm>

Concept	Period [Axis]		
	2011-06-01 - 2012-05-31	2010-06-01 - 2011-05-31	2009-06-01 - 2010-05-31
Unrecorded Unconditional Purchase Obligation [Abstract]			
2012	1,874,000,000		
2013	315,800,000		
2014	176,600,000		
2015	117,700,000		
2016	107,400,000		
Subsequent years	2,099,900,000		
Total	4,691,400,000		
A schedule of future minimum lease payments under non-cancelable operating leases follows:			
2012	41,100,000		
2013	24,600,000		
2014	16,300,000		
2015	10,200,000		
2016	6,300,000		
Subsequent years	13,900,000		
Total	112,400,000		
Rental expense and purchases made for the fiscal period were as follows:			
Rental expense for the fiscal period			
Purchases made under long-term commitments during the reporting period	3,100,000,000	2,200,000,000	1,300,000,000
Contracts Revenue	158,200,000	186,800,000	66,100,000
Surety Bonds Outstanding [Abstract]			
Surety bonds outstanding for mining reclamation obligations	171,300,000		
Surety bonds outstanding for other than mining reclamation obligations	13,900,000		
Total amount of surety bonds outstanding	185,200,000		

Note that rather than having report fragments that basically run together in the first example; the second example provides distinct hierarchies that allow users to better see the distinct pieces of the report.

1.21. Avoid mixing distinct characteristics and concepts

Representing what should be two distinct and unrelated disclosures within one report component should be avoided. For example, many filers represent preferred and common stock together within one report components when two distinct and separate report components is more appropriate.

Avoid this: (using Axes that cause lots of empty cells in renderings)

<http://www.sec.gov/Archives/edgar/data/896878/000089687812000146/0000896878-12-000146-index.htm>

Period [Axis]	Debt Instrument [Line Items]	Long-term Debt, Type [Axis]				
		Operating Lease Expense [Member]	Purchase Commitment [Member]	Long-term Debt, Type [Domain]		
		Debt Instrument [Axis]	Debt Instrument [Axis]	Debt Instrument [Axis]		
		Debt Instrument, Name [Domain]	Debt Instrument, Name [Domain]	5.40 percent fixed-rate notes due 2012 [Member]	5.75 percent fixed-rate notes due 2017 [Member]	Debt Instrument, Name [Domain]
		Investment Type [Axis]	Investment Type [Axis]	Investment Type [Axis]	Investment Type [Axis]	Investment Type [Axis]
		Investment Type Categorization [Domain]	Investment Type Categorization [Domain]	Investment Type Categorization [Domain]	Investment Type Categorization [Domain]	Senior Notes [Member]
2011-08-01 - 2012-07-31	Long Term Obligations And Commitments (Textuals)					
	Senior notes			0	500,000,000	500,000,000
	Senior notes, rate					
	Interest paid				56,000,000	60,000,000
	Cash paid to license technology					10,000,000
	Period for contractual maturities of senior notes					
	Unamortized discounts on senior notes					(1,000,000)
	Amount payable over next ten fiscal years for agreement to license technology					
	Present value of license technology agreement					
	Years lease term can be extended under lease option					
	Operating leases, rent expense					51,000,000
	Reported as:					
	Current portion of long-term debt					
	Long-term debt					499,000,000
	Total senior notes					499,000,000
	Other long-term obligations					
	Total license fee payable					54,000,000
	Total deferred rent					53,000,000
	Long-term deferred revenue					42,000,000
	Long-term income tax liabilities					41,000,000
	Other					5,000,000
	Total Long-term obligations					635,000,000

The rendering of the rendering engine above is poor because the representation of the information is poor.

Consider this extreme example. Below, a filer uses both the "Finite-lived intangible asset Type [Axis]" and the "Indefinite-lived intangible assets Type [Axis]" on the same report component. A fact can never be both a finite-lived and an indefinite-lived intangible asset.

<http://www.sec.gov/Archives/edgar/data/866273/000086627313000057/0000866273-13-000057-index.htm>

Period [Axis]	Finite-lived Intangible Assets [Line Items]	Finite-lived Intangible Assets by Major Class [Axis]											
		Intellectual Property [Member]		Customer Relationships [Member]		Customer Based [Member]		Noncompete Agreements [Member]		Trade Names [Member]		Finite-lived Intangible Assets, Major Class Name [Domain]	
		Indefinite-lived Intangible Assets by Major Class [Axis]		Indefinite-lived Intangible Assets by Major Class [Axis]		Indefinite-lived Intangible Assets by Major Class [Axis]		Indefinite-lived Intangible Assets by Major Class [Axis]		Indefinite-lived Intangible Assets, Major Class Name [Domain]		Indefinite-lived Intangible Assets, Major Class Name [Domain]	
		Minimum [Member]	Maximum [Member]	Range [Domain]	Range [Domain]	Minimum [Member]	Maximum [Member]	Range [Domain]	Range [Domain]	Minimum [Member]	Maximum [Member]	Range [Domain]	Range [Domain]
2012-07-01 - 2013-06-30	Finite-lived Intangible Assets, Fair Value Disclosure												
	Carrying value of other intangible assets												
	Useful life of intangible assets	PSY	PSY		PSY	PSY		PSY	PSY		PSY	PSY	
	Gross carrying amount		2,460,000		4,250,000		808,000		165,000		7,483,000		
	Accumulated amortization		(753,000)		(542,000)		(287,000)		0		(1,582,000)		
	Net carrying amount		1,707,000		3,708,000		521,000		165,000		5,901,000		
	Indefinite-lived trade names									1,450,000			
	Intangible assets, gross, excluding Goodwill										9,133,000		
	Accumulated amortization - Intangible assets, excluding Goodwill										(1,582,000)		
	Intangible assets, net, excluding Goodwill										7,551,000		
2011-07-01 - 2012-06-30	Finite-lived Intangible Assets, Fair Value Disclosure												
	Carrying value of other intangible assets												
	Useful life of intangible assets	PSY	PSY		PSY	PSY		PSY	PSY		PSY	PSY	
	Gross carrying amount		2,460,000		2,657,000		547,000		547,000		5,464,000		
	Accumulated amortization		(598,000)		(285,000)		(159,000)		388,000		(1,030,000)		
	Net carrying amount		1,874,000		2,372,000		388,000		935,000		4,434,000		
	Indefinite-lived trade names									1,870,000			
	Intangible assets, gross, excluding Goodwill										7,534,000		
	Accumulated amortization - Intangible assets, excluding Goodwill										(1,030,000)		
	Intangible assets, net, excluding Goodwill										6,504,000		

1.22. Recognize the need for both automated and manual verification processes

The processes used for verification of the “true and fair representation” of financial information can take two general forms: automated processes performed using machines and manual processes performed by humans.

Automated verification processes can be preferable because they are more reliable and dependable, they take less time, and they cost less than manual processes. Verification can be automated only to the extent rules are provided to verify aspects of a digital financial report. No financial report can be verified 100% using automated processes and therefore manual verification is always necessary. The following is a summarized version of automated and manual verification tasks²³:

#	Verification/validation task	Automatable	Manual
1	Valid XBRL technical syntax	X	
2	Edgar Filer Manual (EFM) valid	X	X
3	Fiscal period, balance sheet date, income statement date valid	X	
4	Root economic entity (entity of focus) discovered	X	
5	Fundamental accounting concepts and relations valid	X	
6	Industry specific accounting concepts and relations valid	X	X
7	Report level model structure valid	X	
8	Primary financial statements discovered	X	X
9	Primary financial statements foot and roll forward appropriately	X	
10	Required disclosures discovered	X	
11	Each SEC Level 3 [Text Block] and SEC Level 4 detail disclosure match	X	X
12	Each SEC Level 4 detail disclosure valid	X	X
13	Current report prior year facts match prior report current year reported facts	X	
14	Variance from prior periods analysis OK	X	X
15	Variance analysis from peers OK	X	X
16	Report-ability rules have been met	X	X
17	SEC Level 1 footnote disclosures appropriate		X
18	SEC Level 2 policy text block disclosures appropriate		X
19	Report element selection appropriate (justifiable/defensible)		X
20	Reported facts appropriate		X
21	Consistency with peers appropriate		X
22	Consistency with prior periods appropriate		X
23	True and fair representation of financial information of economic entity		X

The following is a more detailed explanation of verification tasks which must be performed and organized in a different manner:

- **Comply with US GAAP:** Clearly a financial report must comply with the rules of US GAAP including SEC rules, industry/activity practices, other common practices, and reporting entity choices where they have such choices.

²³ For more information see, <http://www.xbrlsite.com/2014/Library/DisclosureChecklist.pdf>

- **Full inclusion/false inclusion:** Everything which should be disclosed has been disclosed as deemed appropriate by US GAAP, SEC, industry/activity practices, common practices, and reporting entity choices.
- **Foots, cross casts, ticks and ties:** A financial report foots, cross casts, and otherwise “ticks and ties”. All mathematical relations must be intact. As accountants we understand this and many times this fact disappears into our unconsciousness because it is so ingrained into what we do and how we do it. Of course things foot and cross cast; of course the pieces tie together.
- **All financial report formats convey the same message:** A financial report can be articulated using paper and pencil, Microsoft Word, PDF, HTML, XBRL, RDF/OWL, or some other computer readable or computer readable formats. While the format may change, the message communicated, the story you tell, should not change. Each format should communicate the same message, regardless of the medium used to convey your message.
- **Justifiable/defensible report characteristics:** Facts reported and the characteristics which describe those reported facts should be both justifiable and defensible by the reporting entity.
- **Consistency between periods:** Financial information expressed within one reporting period should be consistent with the financial information expressed within subsequent reporting periods, where appropriate. Clearly new information will be added and information which becomes irrelevant will be removed from a financial report. Changes between report elements which existed in both periods should be justifiable and defensible as opposed to arbitrary and random.
- **Consistency with peer group:** If a reporting entity chooses one approach/report element and a peer chooses a different approach/report element; clearly some good, explainable reason should exist for such difference. The judgment of an accountant can determine if the difference is appropriate or not. Differences of opinion can also exist. However, some sort of rationale will likely exist for differences or similarities. Because of ambiguity, different conclusions can be reached and each be reasonable and appropriate.
- **Logical representations indicated by understandable renderings:** Renderings of facts; characteristics describe facts; parenthetical explanations which further describe such facts; and other such model structures should make sense and be both consistent with other similar logical structures and logical from the perspective of the technical syntax used to articulate that information. While there may be differences of opinion as to how to format or present such information; there should be significantly less or no dispute about the logic. Disclosures are informational, they relate to information without regard to formatting or other presentational artifacts. Notes relate to organizing disclosures and are presentational in nature. Someone creating a financial report has far more latitude and discretion as to how to organize disclosures into notes than they do as to what must be disclosed.
- **Unambiguous business meaning:** A financial report should be unambiguous to an informed reader. The business meaning of a financial report should be clear/unambiguous to the creator of the financial report and likewise clear/unambiguous to the users of that financial report. Both the creator and users should walk away with the same message or story. A financial report should be usable by regulators, financial institutions, analysts, investors, economists, researchers, and others who desire to make use of the information the report contains.

The following is a set of criteria which is verified using 100% automated processes and the results obtained from the 6,644 XBRL-based financial filings verified by the processes²⁴:

#	Goal or Desired State	Process tests	Current State
1	Consistent XBRL technical syntax	Automated XBRL technical syntax error checks	99.9% meet the criteria of consistent XBRL technical syntax rules and are therefore fundamentally readable documents
2	Consistent EDGAR Filer Manual (EFM) syntax/semantics	Automated EFM syntax and semantics error checks	97.9% meet the criteria of specified automatable SEC EDGAR Filer Manual (EFM) rules
3	Consistent report level structure	Automated model structure error checks	99.9% meet the criteria of consistent and unambiguous report level model structure relations
4	Detectable economic entity or accounting entity or “root reporting entity” or “entity of focus”	Successful and unambiguous identification of the “entity of focus”	99.2% provide a detectable “root of reporting entity” so that information can be properly discovered using automated processes
5	Detectable and unambiguous current period balance sheet and income statement period dates	Successful and unambiguous identification of the current balance sheet date and income statement period	99.3% provide a detectable and unambiguous current balance sheet date
6	Detectable and unambiguous set of fundamental reported facts and intact relations between those fundamental facts which prove trustworthy nature of information	Automated verification checks to be sure fundamental accounting concepts are distinguishable/decipherable and the relations between those fundamental concepts are intact/sound	97.8% consistently report or provide enough information to impute 51 fundamental accounting concepts and those concepts consistently adhere to 21 basic accounting relationships
7	Detectable basic primary financial statement roll up computations are intact which prove trustworthy nature of information	Automated verification checks for existence of business rules which articulate these basic primary financial statement relations and successful passing of these business rules	90.1% provide detectable roll up rules for balance sheet, income statement, cash flow statement

1.23. Recognize that concepts cannot be moved between accounting concept categories or classes

Concepts defined as being one class of financial reporting concept by the US GAAP Financial Reporting XBRL Taxonomy cannot be redefined to be within some other class of financial reporting concept. For example, a “nonoperating income (expense)” concept cannot be used as an “revenues”.

While the US GAAP XBRL Taxonomy does not explicitly or formally “map” each taxonomy concept to a basic concept (i.e. define class-subclass relations), the relations are implicit. Both the presentation relations, but more likely the calculation relations that exist in the taxonomy implicitly articulate this information.

HINT: Generally when a reporting entity moves the concept *Interest and Debt Expense* to be included within *Nonoperating Income (Loss)* the reason is because there is a concept missing from the US GAAP XBRL Taxonomy. The missing concept is essentially *Nonoperating Income (Loss) Including Interest and Debt Expense* which combines the two concepts.

²⁴ *Understanding the Minimum Processing Tests*, <http://www.xbrl.com/2014/Library/UnderstandingMinimumProcessSteps-2014-02-14.pdf>

Each concept created within a reporting entity taxonomy should be associated with some basic accounting concept. For example, all concepts defined which are an asset should be specifically defined as such using perhaps a “class-subclass” type relation or the existing “general-special” relation defined by XBRL.

This can be achieved using the XBRL definition linkbase.

Here is an example of a violation of the use of a fundamental accounting concept. The summary of the situation is that Procter & Gamble uses the concept “us-gaap:LiabilitiesNoncurrent” to express not the total of noncurrent liabilities like 99.9% of SEC filers do who provide that balance sheet line item and not like the US GAAP XBRL Taxonomy clearly specifies that item; rather Procter & Gamble uses that concept to express what they have labeled in their filing “Other Non-Current Liabilities”. They do provide “Total Liabilities, Noncurrent” using the concept “us-gaap:OtherLiabilitiesNoncurrent”; however, that concept also uses an incorrect concept. This line item also is not on the balance sheet.

This is the Procter & Gamble XBRL submission:

<https://www.sec.gov/Archives/edgar/data/80424/000008042413000063/pg-20130630.xml>

This will let you look at the submission using the XBRL Cloud Viewer:

<http://goo.gl/A9fo9u>

US GAAP XBRL Taxonomy shows relations for “us-gaap:LiabilitiesNoncurrent” as being part of “us-gaap:Liabilities” (i.e. Current liabilities + Noncurrent liabilities = Total liabilities)

104000 - Statement - Statement of Financial Position, Classified	
+	Liabilities, Current Cr
	Liabilities, Noncurrent Cr
	<u>Liabilities Cr</u>

Yet, Procter & Gamble is using that concept as PART of the line item “Total Liabilities, Noncurrent” in their detailed breakdown of other liabilities:

Component: (Network and Table)	
Network	104000 Disclosure SUPPLEMENTAL FINANCIAL INFORMATION Other Liabilities (Details)
Table	Implied [Table]
Reporting Entity [Axis]	0000080424 http://www.sec.gov/CIK
Period [Axis]	2013-06-30
Implied [Line Items]	2013-06-30
Other Liabilities Disclosure [Abstract]	
OTHER NONCURRENT LIABILITIES	
Pension benefits	6,027,000,000
Other postretirement benefits	1,713,000,000
Uncertain tax positions	2,002,000,000
Other Non-Current Liabilities	837,000,000
Total Liabilities, Noncurrent	10,579,000,000
ACCRUED AND OTHER LIABILITIES - CURRENT	
Marketing and promotional	
Compensation expense	
Restructuring Reserve	
Taxes payable	
Legal and environment	
Other	
Fact Characteristics and Properties	
Reporting Entity	0000080424 http://www.sec.gov/CIK
Period	2013-06-30
Concept	Liabilities, Noncurrent
Name	us-gaap:LiabilitiesNoncurrent
Prefix	us-gaap
Balance Type	Credit
Period Type	As Of (instant)
Data Type	Monetary (xbrl:monetaryItemType)
Fact Value	837000000
Units	iso4217:USD
Decimals (rounding)	-6

Total Liabilities, Noncurrent:

Uncertain tax positions	2,002,000,000	2,245,000,000
Other Non-Current Liabilities	837,000,000	891,000,000
Total Liabilities, Noncurrent	10,579,000,000	12,090,000,000

Fact Characteristics and Properties		
Properties	Occurrences	To Do
Reporting Entity	0000080424	http://www.sec.gov/CIK
Period	2013-06-30	
Concept	Other Liabilities, Noncurrent	
Name	us-gaap:OtherLiabilitiesNoncurrent	
Prefix	us-gaap	

XBRL Cloud Viewer showing balance sheet:

Reporting Entity [Axis]	0000080424 (http://www.sec.gov/CIK)	
Legal Entity [Axis]	Entity [Domain]	
Statement [Line Items]	Period [Axis]	
	2013-06-30	2012-06-30
Class of Stock [Axis]	Class of Stock [Axis]	
	Class of Stock [Domain]	Class of Stock [Domain]
Assets		
CURRENT ASSETS		
Cash and cash equivalents	5,947,000,000	4,436,000,000
Accounts receivable		
INVENTORIES		
Materials and supplies		
Work in process		
Finished goods		
Total inventories		
Deferred income taxes		
Prepaid expenses and other current assets		
TOTAL CURRENT ASSETS		
NET PROPERTY, PLANT AND EQUIPMENT		
Goodwill, Net		
Trademarks and other intangible assets, net		
OTHER NONCURRENT ASSETS		
TOTAL ASSETS	1	
Liabilities and Shareholders' Equity		
CURRENT LIABILITIES		
Accounts payable	8,777,000,000	7,920,000,000
Accrued and other liabilities	8,828,000,000	8,289,000,000
Debt due within one year	12,432,000,000	8,698,000,000
TOTAL CURRENT LIABILITIES	30,037,000,000	24,907,000,000
LONG-TERM DEBT	19,111,000,000	21,080,000,000
DEFERRED INCOME TAXES	10,827,000,000	10,132,000,000
OTHER NONCURRENT LIABILITIES	10,579,000,000	12,090,000,000
TOTAL LIABILITIES	70,554,000,000	68,209,000,000

Report Element	
Properties	Occurrences
Documentation:	Aggregate carrying amount, as of the balance sheet date, of noncurrent obligations not separately disclosed in the balance sheet. Noncurrent liabilities are expected to be paid after one year (or the normal operating cycle, if longer).
Report Element Class	Concept
Prefix (From Taxonomy)	us-gaap
Balance Type	Credit
Period Type	As Of (instant)
Data Type	Monetary (xbrl:monetaryItemType)
Name	us-gaap:OtherLiabilitiesNoncurrent
ID	us-gaap_OtherLiabilitiesNoncurrent

Fundamental accounting concept validation shows that 99.9% of SEC XBRL filers use the concept "us-gaap:LiabilitiesNoncurrent" to represent "Total noncurrent liabilities", not a detailed component within total noncurrent liabilities (as Procter & Gamble did):

Test	Fundamental accounting relationship (business rule)	Total set	No root entity	Exclude	Total set	Pass test	Percent	Comments	Fail test
B51	Equity = EquityAttributableToParent + EquityAttributableToNoncontrollingInterest	7,160	58	0	7,102	7,003	98.6%		99
B52	Assets = LiabilitiesAndEquity	7,160	58	0	7,102	7,061	99.4%		41
B53	Assets = CurrentAssets + NoncurrentAssets	7,160	58	1,631	5,471	5,469	100.0%	Not all filers have classified balance sheets. Unclassified balance sheets excluded.	2
B54	Liabilities = CurrentLiabilities + NoncurrentLiabilities	7,160	58	1,631	5,471	5,467	99.9%	Not all filers have classified balance sheets. Unclassified balance sheets excluded.	4
B55	LiabilitiesAndEquity = Liabilities + CommitmentsAndContingencies + TemporaryEquity + Equity	7,160	58	0	7,102	6,807	95.8%		293
IS1	GrossProfit = Revenues - CostOfRevenue	7,160	412	3,403	3,345	2,946	88.1%	Not all filers use multi-step income statement. Exclude overlapping statements using components.	393

1.24. Recognize that concepts reported within a financial report can be grouped into useful sets or classes

SFAC 6 breaks a financial statement into groups of 10 elements: assets, liabilities, equity, investments by owners, distributions to owners, comprehensive income, revenues, expenses, gains, losses. These elements are 'the building blocks' with which financial statements are constructed - the classes of items that financial statements comprise. (Elements of Financial Statements. Statement of Financial Accounting Concepts No. 6 (Stamford, Conn.: FASB, 1985, par. 5.)

A classification scheme is an arrangement of types or sets of things into useful groups²⁵. SFAC 6 elements are an example of such groups. 'Assets' is one group. 'Revenues' is another group. Something cannot be both an asset and revenue. While these 10 elements defined by the FASB are not the appropriate set of elements for defining an entire digital financial report, they do serve as a very useful starting point. Consider the fundamental accounting concepts as a useful expansion of the 10 elements defined by the FASB. So, rather than just *assets*, we now have *current assets* and *noncurrent assets*. The point is, I am not trying to articulate the list of classes; I am simply pointing out the notion of class by providing a list of things that certainly appear to be useful classes.

In observing the concepts you start to see some important differences between the sets of concepts²⁶. The sets seem to have four important properties and different sets have different properties:

- Concept is required to be reported
- Concept may redefine or replace
- New concept may be created
- New subclasses may be created for concept

For example, consider the concept *Operating Income (Loss)*. Is that concept required to be reported? NO, reporting operating income (loss) is not required; proof of that is that many filers do NOT report operating income (loss). May a filer redefine or replace the concept operating income (loss)? NO; observing public company financial reports shows this to be true. May a filer create a new concept to replace the existing concept? NO; why would they do that? Can a filer add a subclass? NO; there is no real subclass of that concept. Consider these same questions for other fundamental accounting concepts. Consider these concepts for example:

Financial statement location	Concept	Required to report	May redefine or replace	May create new	May add new subclass
Balance sheet	Assets	YES	NO	NO	YES

²⁵ For more information see, <http://www.xbrl.com/2014/Prototype/Classes/>

²⁶ For more information see, <http://xbrl.squarespace.com/journal/2014/12/31/understanding-the-benefits-of-classification.html>

Financial statement location	Concept	Required to report	May redefine or replace	May create new	May add new subclass
Balance sheet	Commitments And Contingencies	NO	NO	NO	NO
Balance sheet	Current Assets	YES	NO	NO	YES
Balance sheet	Current Liabilities	YES	NO	NO	YES
Balance sheet	Equity	YES	NO	NO	NO
Balance sheet	Equity Attributable To Noncontrolling Interest	NO	NO	NO	YES
Balance sheet	Equity Attributable To Parent	NO	NO	NO	YES
Balance sheet	Liabilities	NO	NO	NO	NO
Balance sheet	Liabilities And Equity	YES	NO	NO	NO
Balance sheet	Noncurrent Assets	NO	NO	NO	YES
Balance sheet	Noncurrent Liabilities	NO	NO	NO	YES
Balance sheet	Temporary Equity	NO	NO	NO	NO
Cash flow statement	Exchange Gains (Losses)	NO	NO	NO	YES
Cash flow statement	Net Cash Flow	YES	NO	NO	NO
Comprehensive income	Comprehensive Income (Loss)	NO	NO	NO	NO
Comprehensive income	Comprehensive Income (Loss) Attributable To Noncontrolling Interest	NO	NO	NO	NO
Comprehensive income	Comprehensive Income (Loss) Attributable to Parent	NO	NO	NO	NO
Comprehensive income	Other Comprehensive Income (Loss)	NO	NO	NO	YES
Income statement	Cost Of Revenue	NO	NO	NO	YES
Income statement	Costs And Expenses	NO	NO	NO	YES
Income statement	Gross Profit	NO	NO	NO	NO
Income statement	Income (Loss) Before Equity Method Investments	NO	NO	NO	NO
Income statement	Income (Loss) From Continuing Operations After Tax	YES	NO	NO	NO
Income statement	Income (Loss) From Continuing Operations Before Tax	YES	NO	NO	NO
Income statement	Income (Loss) From Discontinued Operations, Net Of Tax	NO	NO	NO	NO
Income statement	Income (Loss) From Equity Method Investments	NO	NO	NO	NO
Income statement	Income Tax Expense (Benefit)	YES	NO	NO	YES
Income statement	Interest And Debt Expense	YES	NO	NO	YES
Income statement	Net Income (Loss)	YES	NO	NO	NO
Income statement	Net Income (Loss) Attributable To Noncontrolling Interest	NO	NO	NO	NO
Income statement	Net Income (Loss) Attributable To Parent	NO	NO	NO	NO
Income statement	Net Income (Loss) Available To Common Stockholders, Basic	NO	NO	NO	NO
Income statement	Nonoperating Income (Expense)	NO	NO	NO	YES
Income statement	Operating Expenses	YES	NO	NO	YES
Income statement	Operating Income (Loss)	NO	NO	NO	NO
Income statement	Other Operating Income (Expenses)	NO	NO	NO	YES
Income statement	Preferred Stock Dividends And Other Adjustments	NO	NO	NO	YES
Income statement	Provision For Loan, Lease, And Other Losses	NO	NO	NO	NO
Income statement	Revenues	YES	NO	NO	YES

In addition, concepts and classes of concepts are related to other concepts or classes of concepts in specific, identifiable ways. This is not a new idea. This is basic set theory. Further, these ideas are used by other tools used to express relations between things. The following is a summary of these ways:

- **Element-class:** Equivalent to owl:Class, rdfs:Class and rdfs:type. The element A is a defined to be class B.

- **Class-subClassOf:** XBRL general-special relation; Equivalent to rdfs:subClassOf. Class A is a specialization of Class P. Ability to organize classes into a hierarchy of general-special terms. Similar to SKOS notion of broader terms versus narrower terms.
- **Class-equivalentClass:** XBRL alias-essence relation; Equivalent to owl:equivalentClass. Class A and class B have the exact same members. (Example, class LiabilitiesAndPartnerCapital and the class LiabilitiesAndStockHolderEquity are both equivalent to LiabilitiesAndEquity.)
- **Class-sameAs:** Equivalent to owl:sameAs. Class A and class B are the exact same real world thing. (Example, the class Equity and the class NetAssets are exactly the same thing.)

This is both an extremely powerful tool and extremely advanced topic of discussion. What professional accountants need to understand is the notion of classes and relations between classes. Other professionals such as those that develop models or taxonomies/ontologies can help professional accountants express this information in machine readable form. Why? Because the more a machine can understand, the more work a machine can do to help their human users.

1.25. Avoid unconsciously changing information representation approach midstream

Avoid changing from a [Line Items]-based representation approach to a [Member]/[Axis]-based representation approach within a report component. Consistently apply one approach for the entire report component.

For example, a significant number of XBRL-based financial filings represent every balance sheet items using Concepts within a set of [Line Items]. And then the representation approach is changed in order to represent common stock. This change causes an inability to express roll up computations consistently with all other roll up business rules and indicates a flawed representation approach.

This screen shot below shows changing the representation approach used on the balance sheet where Concepts are used to represent balance sheet items and then the creator switches to using [Member]s to express common stock information. This results in a representation which is unnecessarily harder to use, inferior to an approach where items were used consistently to represent all information, and XBRL calculation errors.

MASTERING XBRL-BASED DIGITAL FINANCIAL REPORTING – PART 3: WORKING WITH DIGITAL FINANCIAL REPORTS –
DIGITAL FINANCIAL REPORT CREATION BEST PRACTICES – CHARLES HOFFMAN, CPA

Balance Sheet [Line Items]	Period [Axis]					
	2010-12-31			2009-12-31		
	Class of Stock [Axis]			Class of Stock [Axis]		
	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]
ASSETS [Roll Up]						
CURRENT ASSETS [Roll Up]						
Cash and cash equivalents			11,000,000			10,000,000
Restricted cash			1,000,000			1,000,000
Short term investments			1,000,000			2,000,000
Accounts receivable, net of allowance for doubtful accounts of \$1,000 and \$1,000			29,000,000			29,000,000
Inventories			4,000,000			4,000,000
Prepaid expenses			8,000,000			8,000,000
Other current assets			2,000,000			2,000,000
Total current assets			56,000,000			56,000,000
NONCURRENT ASSETS [Roll Up]						
Property, plant and equipment, net			9,000,000			9,000,000
Other noncurrent assets			82,000,000			82,000,000
Total noncurrent assets			91,000,000			91,000,000
Total assets			147,000,000			147,000,000
LIABILITIES AND EQUITY [Roll Up]						
LIABILITIES [Roll Up]						
CURRENT LIABILITIES [Roll Up]						
Accounts payable and accrued expenses			7,000,000			7,000,000
Current portion of long-term debt			22,000,000			22,000,000
Other current liabilities			26,000,000			26,000,000
Total current liabilities			55,000,000			55,000,000
NONCURRENT LIABILITIES [Roll Up]						
Accounts payable and accrued expenses			1,000,000			1,000,000
Long-term debt			19,000,000			19,000,000
Other noncurrent liabilities			32,000,000			33,000,000
Total noncurrent liabilities			52,000,000			53,000,000
Total liabilities			107,000,000			108,000,000
Commitments and contingencies						
STOCKHOLDERS' EQUITY [Roll Up]						
Preferred stock, Class A, \$1 par, 10,000 shares authorized, issued and outstanding; redemption amount \$5,000, liquidation preference \$10,000, conversion basis Tincidunt cursus est			10,000,000			10,000,000
Common stock, Class A and Class B, \$1 par, 110,000 shares authorized (Class A 60,000, Class B 50,000), 90,000 shares issued and outstanding (Class A 50,000, Class B 40,000)	10,000,000	10,000,000		10,000,000	10,000,000	
Additional paid in capital			1,000,000			1,000,000
Treasury stock, share value \$1, 10,000 shares, restrictions are Cursus est ullamcorper vel sollicitudin lacus			2,000,000			2,000,000
Retained earnings			6,000,000			6,000,000
Accumulated other comprehensive income, net of tax			5,000,000			4,000,000
Stockholders' equity			40,000,000			39,000,000
Total liabilities and stockholders' equity			147,000,000			147,000,000

1.26. Avoid inconsistencies in network identification

When a report component is represented, the XBRL presentation relations, XBRL calculation relations, and XBRL definition relations related to that report component should have the same network naming (i.e. identifier, number, sort category, and title). There is no reason to name report component pieces with differently/inconsistently (i.e. using different networks).

Saying this another way; if you use the network identifier <http://www.myCompany.com/role/BalanceSheet> on the presentation relations, <http://www.myCompany.com/role/BalanceSheet2> on the calculation relations, and <http://www.myCompany.com/role/BalanceSheet3> on the definition relations; software will not understand that those pieces go together and work together because it has no way of understanding that they go together. Whereas if the presentation relations, calculation relations, and definition relations all use the same network identifier <http://www.myCompany.com/role/BalanceSheet> software will understand that the pieces go together.

Bottom line: use the same network identifier and network name for all relations expressed and business rules expressed for a report component.

1.27. Recognize that characteristics apply to all reported facts within a report component

Recognize that a characteristic expressed via an [Axis] within a report component applies to every concept within that report component. And so if a “Class of Stock [Axis]” exists on a balance sheet, you are saying that “Cash and Cash Equivalents”, “Inventories”, and all the other balance sheet items have a characteristic related to a class of stock.

Avoid doing this:

<http://www.sec.gov/Archives/edgar/data/1487685/000138713112000988/0001387131-12-000988-index.htm>

Statement [Line Items]	Period [Axis]													
	2011-12-31							2010-12-31						
	Class of Stock [Axis]							Class of Stock [Axis]						
	Series A-1 Preferred Stock	Series A-2 Preferred Stock	Series A-1 Preferred Warrant	Series A-2 Preferred Warrant	Series A-1 Common Stock	Series A-2 Common Stock	Class of Stock [Domain]	Series A-1 Preferred Stock	Series A-2 Preferred Stock	Series A-1 Preferred Warrant	Series A-2 Preferred Warrant	Series A-1 Common Stock	Series A-2 Common Stock	Class of Stock [Domain]
Allowance for doubtful accounts - accounts receivable gaming							282,000							1,931,000
Allowance for doubtful accounts - accounts receivable other							101,000							151,000
Accumulated amortizations - financing fees							5,086,000							1,680,000
Accumulated amortizations - rated player relationships							20,700,000							6,900,000
Preferred stock par value	0.01	0.01						0.01	0.01					
Preferred stock shares authorized	1,688,268	645,065						1,688,268	645,065					
Preferred stock shares issued	1,463,535	162,255						1,463,535	162,255					
Preferred stock shares outstanding	1,463,535	162,255						1,463,535	162,255					
Preferred warrants par value			0.01	0.01						0.01	0.01			
Preferred warrants shares issued			202,511	460,587						202,511	460,587			
Preferred warrants shares outstanding			202,511	460,587						202,511	460,587			
Common stock par value					0.01	0.01						0.01	0.01	
Common stock shares authorized					4,354,935	645,065						4,354,935	645,065	
Common stock shares issued					142,423	xbr:nil						140,291	xbr:nil	
Common stock shares outstanding					142,423	xbr:nil						140,291	xbr:nil	

There are two things inappropriate about the above example. First, three discrete pieces are all run together which makes the information harder to read. Second, information about the allowance for doubtful accounts has a “Class of Stock [Axis]” and is associated with the “Class of Stock [Domain]” which makes no sense. A good clue that this representation is a mistake is all the empty cells that you see. Notice the four distinct groups of information for each period. Those groups are things which do go together.

Better practice is this: <http://goo.gl/4Q0cQh>

Balance Sheet Parenthetical [Line Items]	Period [Axis]	
	2010-12-31	2009-12-31
Balance Sheet Parenthetical [Hierarchy]		
Accounts receivable, allowance	7,000,000	6,000,000

Preferred Stock Information, by Class [Line Items]	Period [Axis]					
	2010-12-31			2009-12-31		
	Class of Stock [Axis]			Class of Stock [Axis]		
	Class A Preferred Stock [Member]	Class B Preferred Stock [Member]	Class of Stock [Domain]	Class A Preferred Stock [Member]	Class B Preferred Stock [Member]	Class of Stock [Domain]
Class of Preferred Stock [Hierarchy]						
Preferred stock, par value per share	1	1		1	1	
Preferred stock, shares authorized	20,000	20,000		20,000	20,000	
Preferred stock, shares issued	20,000	20,000		20,000	20,000	
Preferred stock, shares outstanding	20,000	20,000		20,000	20,000	
Preferred stock, value outstanding	10,000,000	10,000,000	20,000,000	10,000,000	10,000,000	20,000,000

Common Stock Information, by Class [Line Items]	Period [Axis]					
	2010-12-31			2009-12-31		
	Class of Stock [Axis]			Class of Stock [Axis]		
	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]
Class of Common Stock [Hierarchy]						
Common stock, par value per share	1	1		1	1	
Common stock, shares authorized	60,000	50,000		60,000	50,000	
Common stock, shares issued	50,000	40,000		50,000	40,000	
Common stock, shares outstanding	50,000	40,000		50,000	40,000	
Common stock, value outstanding	10,000,000	10,000,000	20,000,000	10,000,000	10,000,000	20,000,000

Notice how if the accounts receivables allowance, the preferred stock information, and the common stock information are separated it makes all the information easier to read each of those representations. There are not a lot of empty cells.

1.28. Recognize that rendering engines render presentation differently but the meaning is the same across all rendering engines

Rendering engines render information from a digital financial report differently, however the meaning of the information is the same across all rendering engines. Why? The meaning of the information is specified within the XBRL technical specification and is not open to interpretation to the extent that that meaning is specified.

Why should you care about this? Well, SEC filers should be less concerned about how their information is presented within the SEC interactive data viewer because that is not how most people will be using that information. If investors and analyst want to read the information they will use the HTML version of the report. Information will most likely be used in analysis tools, Excel, business intelligence software, or other digital representation. That information will generally come from web service APIs. Information will then be rendered by individual applications in many, many different ways.

This is why the representation of the information is more critical to watch over than the presentation of the information.

Also, the SEC interactive data viewer is not a very good rendering engine. It does not make a lot of information available. For example, you cannot see roll up computations.

Consider the rendering below which shows calculations by cleverly putting a green check in the lower right hand corner of each roll up to show if the roll up is valid or invalid. (This rendering is provided by SECXBRL.info.)

Component: (Network and Table)				
Network	1001000 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF INCOME (http://www.thecocacola.com/role/CondensedConsolidatedStatementsOfIncome)			
Table	Statement [Table]			
Reporting Entity	http://www.sec.gov/CIK/000021344			
Statement, Scenario [Axis]	Scenario, Unspecified [Domain]			
Statement	Period [Axis]			
	2014-06-28/2014-09-26	2014-01-01/2014-09-26	2013-06-29/2013-09-27	2013-01-01/2013-09-27
NET OPERATING REVENUES	11,976,000,000	35,128,000,000	12,030,000,000	35,814,000,000
Cost of goods sold	4,630,000,000	13,532,000,000	4,793,000,000	14,106,000,000
GROSS PROFIT	7,346,000,000 ✓	21,594,000,000 ✓	7,237,000,000 ✓	21,708,000,000 ✓
Selling, general and administrative expenses	4,507,000,000	12,880,000,000	4,424,000,000	12,991,000,000
Other operating charges	128,000,000	457,000,000	341,000,000	594,000,000
OPERATING INCOME	2,711,000,000 ✓	8,257,000,000 ✓	2,472,000,000 ✓	8,123,000,000 ✓
Interest income	169,000,000	436,000,000	136,000,000	381,000,000
Interest expense	113,000,000	344,000,000	90,000,000	314,000,000
Equity income (loss) - net	205,000,000	530,000,000	204,000,000	537,000,000
Other income (loss) - net	-312,000,000	-630,000,000	658,000,000	522,000,000
INCOME BEFORE INCOME TAXES	2,660,000,000 ✓	8,249,000,000 ✓	3,380,000,000 ✓	9,249,000,000 ✓
Income taxes	538,000,000	1,896,000,000	925,000,000	2,331,000,000
CONSOLIDATED NET INCOME	2,122,000,000 ✓	6,353,000,000 ✓	2,455,000,000 ✓	6,918,000,000 ✓
Less: Net income attributable to noncontrolling interests	8,000,000	25,000,000	8,000,000	44,000,000
NET INCOME ATTRIBUTABLE TO SHAREOWNERS OF THE COCA-COLA COMPANY	2,114,000,000 ✓	6,328,000,000 ✓	2,447,000,000 ✓	6,874,000,000 ✓
BASIC NET INCOME PER SHARE (in dollars per share)	0.48	1.44	0.55	1.55
DILUTED NET INCOME PER SHARE (in dollars per share)	0.48	1.42	0.54	1.52
DIVIDENDS PER SHARE (in dollars per share)	0.305	0.915	0.280	0.840
AVERAGE SHARES OUTSTANDING (in shares)	4,383,000,000	4,392,000,000	4,426,000,000	4,442,000,000
Effect of dilutive securities (in shares)	62,000,000	62,000,000	72,000,000	76,000,000
AVERAGE SHARES OUTSTANDING ASSUMING DILUTION (in shares)	4,445,000,000 ✓	4,454,000,000 ✓	4,498,000,000 ✓	4,518,000,000 ✓

1.29. Recognize that the number of members in some reported set does not change the characteristics of a reported fact

When information is represented, the number of [Member]s of a characteristic does not change the representation approach. Whether that set of [Member]s has 5 members, or 3, or only 1; the representation approach does not change.

For example, characteristic information which describes classes of common stock does not change if there is one, two, three, or many other classes of stock. The number of [Member]s may change; but the characteristics of the class of stock information does not change.

Avoid doing this: <http://goo.gl/T2bisk>

Common Stock Information, by Class [Line Items]	Period [Axis]	
	2010-12-31	2009-12-31
Class of Common Stock [Hierarchy]		
Common stock, par value per share	1	1
Common stock, shares authorized	60,000	60,000
Common stock, shares issued	50,000	50,000
Common stock, shares outstanding	50,000	50,000
Common stock, value outstanding	10,000,000	10,000,000

Note that there is no "Class of Stock [Axis]" and therefore no "Class A Common Stock [Member]" to explicitly identify.

Better practice is this (even with only one member): <http://goo.gl/qhRzF7>

Common Stock Information, by Class [Line Items]	Period [Axis]			
	2010-12-31		2009-12-31	
	Class of Stock [Axis]		Class of Stock [Axis]	
	Class A Common Stock [Member]	Class of Stock [Domain]	Class A Common Stock [Member]	Class of Stock [Domain]
Class of Common Stock [Hierarchy]				
Common stock, par value per share	1		1	
Common stock, shares authorized	60,000		60,000	
Common stock, shares issued	50,000		50,000	
Common stock, shares outstanding	50,000		50,000	
Common stock, value outstanding	10,000,000	10,000,000	10,000,000	10,000,000

Notice how in the rendering above that (a) there is one class of stock, (b) that information is explicit and not implied, (c) there is a total for ALL classes of stock which so happens to be the same as the one class because there is only one class of stock.

Contrast the above to this (when you have two members this is the proper representation; why would you not provide the [Axis] if there is only one [Member]?)

See: <http://goo.gl/po3Utr>

Common Stock Information, by Class [Line Items]	Period [Axis]					
	2010-12-31			2009-12-31		
	Class of Stock [Axis]			Class of Stock [Axis]		
	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]	Class A Common Stock [Member]	Class B Common Stock [Member]	Class of Stock [Domain]
Class of Common Stock [Hierarchy]						
Common stock, par value per share	1	1		1	1	
Common stock, shares authorized	60,000	50,000		60,000	50,000	
Common stock, shares issued	50,000	40,000		50,000	40,000	
Common stock, shares outstanding	50,000	40,000		50,000	40,000	
Common stock, value outstanding	10,000,000	10,000,000	20,000,000	10,000,000	10,000,000	20,000,000

Now a second class of stock is added. Compare this with both the “Avoid doing this” and the “Better practice is this” examples and you begin to see why the better practice is better. Further, if you look at the XBRL Formulas which support the representation, the formula does not change at all between 1 class of stock, 2 classes, and would not change if there were 50 classes of stock. That is additional evidence that this is a better representation approach.

1.30. Label networks with meaningful information

When describing what is contained in your digital financial report, avoid terms which don’t allow a user of the information to understand what that section of the report contains. For example, avoid the use of “Detail”, “Detail 1”, “Detail 2”, “Detail 3” as is shown below:

http://www.sec.gov/cgi-bin/viewer?action=view&cik=888491&accession_number=0001188112-13-000515&xbrl_type=v#

Cover	Document and Entity Information (USD \$)	12 Months Ended		
Document and Entity Information		Dec. 31, 2012	Feb. 22, 2013	Jun. 30, 2012
Financial Statements	Document and Entity Information [Abstract]			
Notes to Financial Statements	Entity Registrant Name	OMEGA HEALTHCARE INVESTORS INC		
Accounting Policies	Entity Central Index Key	0000888491		
Notes Tables	Trading Symbol	ohi		
Notes Details	Entity Current Reporting Status	Yes		
	Entity Voluntary Filers	No		
	Current Fiscal Year End Date	--12-31		
	Entity Filer Category	Large Accelerated Filer		
	Entity Well-Known Seasoned Issuer	Yes		
	Entity Common Stock Shares Outstanding	112,971,775		
	Entity Public Float	\$ 2,425,939,178		
	Document Type	10-K		
	Document Period End Date	Dec. 31, 2012		
	Amendment Flag	false		
	Document Fiscal Year Focus	2012		
	Document Fiscal Period Focus	FY		
ORGANIZATION AND BASIS OF PRESENTATION (Narrative) (Detail)				
SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Detail)				
SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Narrative) (Detail)				
SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Narrative) (Detail 1)				
PROPERTIES (Detail)				
PROPERTIES (Detail 1)				
PROPERTIES (Detail 2)				
PROPERTIES (Detail 3)				
PROPERTIES - Leased Property (Narrative) (Detail)				
PROPERTIES - Genesis Healthcare (Narrative) (Detail)				

Rather, use descriptive titles which accurately describe information contained in that section and help the user of the information understand what the section contains.

1.31. Information reported by one fact should not contradict or conflict with information reported by another fact

When information is reported by one fact; that reported information should not contradict or conflict with information reported by another fact. For example, consider this section of an income statement of a financial institution that uses interest-based reporting: (First Guaranty Bancshares, Inc.; <http://www.sec.gov/Archives/edgar/data/1408534/000140853416000053/0001408534-16-000053-index.htm>)

Federal funds sold	0	13,395,000	1,000
Total Interest Income	56,079,000	53,297,000	50,886,000
Interest Expense:			
Demand deposits	1,419,000	1,312,000	1,262,000
Savings deposits	38,000	33,000	41,000
Time deposits	6,985,000	7,716,000	9,682,000
Borrowings	166,000	141,000	149,000
Total Interest Expense	8,608,000	9,202,000	11,134,000
Net Interest Income	47,471,000	44,095,000	39,752,000
Less: Provision for loan losses	3,864,000	1,962,000	2,520,000
Net Interest Income after Provision for Loan Losses	43,607,000	42,133,000	37,232,000
Noninterest Income:			
Service charges, commissions and fees	2,736,000	2,767,000	3,006,000
ATM and debit card fees	1,779,000	1,671,000	1,634,000
Net gains on securities	3,300,000	295,000	1,571,000
Net gain (loss) on sale of loans	1,000	3,000	(70,000)

If you look at the income statement in isolation nothing seems to be wrong. However, if you are performing the correct testing you will become aware that the concept used to report the line item "Less: Provision for loan losses" using the concept "us-gaap:ProvisionForLoanAndLeaseLosses" conflicts with another concept.

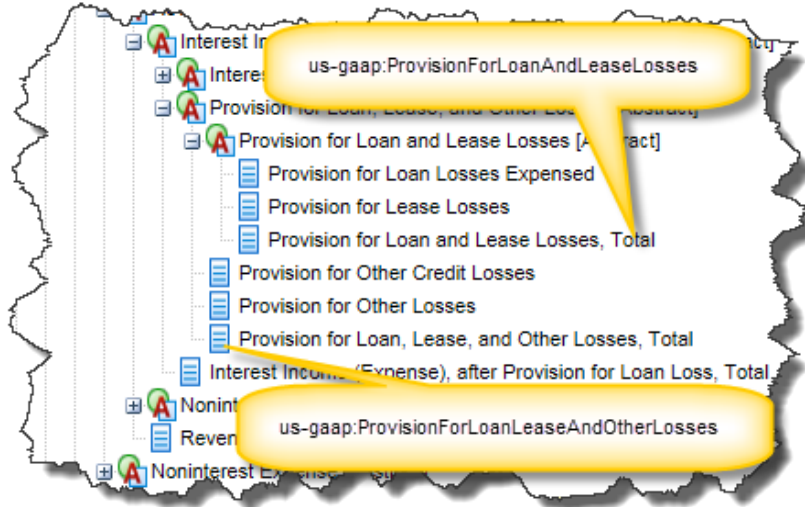
Using the fundamental accounting concept relations, an inconsistency is pointed out. When the inconsistency is investigated one discovers that the concept used conflicts with another concept that was reported which is also appropriate for reporting that line item, "us-gaap:ProvisionForLoanLeaseAndOtherLosses".

Interest Expense	8,608,000	fac:InterestExpense[8,608,000]												
Interest Income (Expense), Operating, Net	47,471,000	fac:InterestIncomeExpenseOperatingNet[us-gaap:InterestIncomeExpenseNet[47,471,000]]												
Provision for Loan, Lease, and Other Losses	(3,864,000)	fac:ProvisionForLoanLeaseAndOtherLosses[us-gaap:ProvisionForLoanLeaseAndOtherLosses[-3,864,000]]												
		<table border="1"> <thead> <tr> <th colspan="3">Fact determination of fac:ProvisionForLoanLeaseAndOtherLosses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>us-gaap:ProvisionForLoanLeaseAndOtherLosses</td> <td>-3,864,000</td> </tr> <tr> <td>2</td> <td>us-gaap:ProvisionForLoanAndLeaseLosses</td> <td>3,864,000</td> </tr> <tr> <td>3</td> <td>us-gaap:ProvisionForLoanLossesExpensed</td> <td>-</td> </tr> </tbody> </table>	Fact determination of fac:ProvisionForLoanLeaseAndOtherLosses			1	us-gaap:ProvisionForLoanLeaseAndOtherLosses	-3,864,000	2	us-gaap:ProvisionForLoanAndLeaseLosses	3,864,000	3	us-gaap:ProvisionForLoanLossesExpensed	-
Fact determination of fac:ProvisionForLoanLeaseAndOtherLosses														
1	us-gaap:ProvisionForLoanLeaseAndOtherLosses	-3,864,000												
2	us-gaap:ProvisionForLoanAndLeaseLosses	3,864,000												
3	us-gaap:ProvisionForLoanLossesExpensed	-												
Interest Income (Expense) After Provision for Losses	43,607,000	fac:InterestIncomeExpenseAfterProvisionForLosses[us-gaap:InterestIncomeExpenseAfterProvisionForLoanLoss[43,607,000]]												
Noninterest Income	8,956,000	fac:NoninterestIncome[us-gaap:NoninterestIncome[8,956,000]]												
Noninterest Expense		fac:NoninterestExpense[us-gaap:NoninterestExpense[31,095,000]]												

Two obvious questions come to mind. First, why do both facts exist? And second, why is one fact positive and the other fact negative? But a third question should be

raised in your mind. This question is the basis for becoming aware of this inconsistency in the first place.

The problem becomes apparent when you look at those two concepts in the US GAAP Financial Reporting XBRL Taxonomy: <http://goo.gl/Kai08L>



While the presentation relations show the relation between the two concepts used, the XBRL calculation relations show this even more clearly: <http://goo.gl/Kai08L>

Provision for Loan, Lease, and Other Losses

Calculations	
124000 - Statement - Statement of Income (Including Gross Margin)	
	Provision for Loan and Lease Losses <i>Dr</i>
+	Provision for Other Credit Losses <i>Dr</i>
+	Provision for Other Losses <i>Dr</i>
	Provision for Loan, Lease, and Other Losses <i>Dr</i>

Provision for Loan and Lease Losses

Calculations	
124000 - Statement - Statement of Income (Including Gross Margin)	
	Provision for Loan Losses Expensed <i>Dr</i>
+	Provision for Lease Losses <i>Dr</i>
	Provision for Loan and Lease Losses <i>Dr</i>

And so, it is completely illogical that the value of -3,864,000 reported using the concept "us-gaap:ProvisionForLoanLeaseAndOtherLosses" and the value of 3,864,000 reported using the concept "us-gaap:ProvisionForLoanAndLeaseLosses" could be correct.

What did this filer do to cause this mistake? Looking at the roll forward of the beginning and ending balance of the allowance for credit losses, of which the

provision is a reconciling item, you can see that the filer used a different concept in that reconciliation than was used on the income statement and cash flow statement where this concept was also used. First, here is the cash flow statement:

Cash Flows From Operating Activities				
Net income	us-gaap:ProvisionForLoanAndLeaseLosses	14,505,000	11,224,000	9,146,000
Adjustments to reconcile net income to net cash provided by operating activities:				
Provision for loan losses		3,864,000	1,962,000	2,520,000
Depreciation and amortization		1,995,000	2,143,000	2,111,000
Amortization/Accretion of investments		2,036,000	2,164,000	2,141,000
Gain on sale/call of securities other than temporary impairment charge on securities		(3,300,000)	(295,000)	(1,571,000)

And here is the other concept being used in the roll forward of the allowance:

First Guaranty Bancshares, Inc. (10-K) 090600 - Disclosure - Allowance for Loan Losses, Summary of Changes in Allowance for Loan Losses, b			
Reporting Entity [Axis] 0001408534 (htt			
Financing Receivable, Allowance for Credit Losses [Line Items]			
Summary of changes in allowance for loan losses, by portfolio type [Roll Forward]			
Beginning allowance	264,000	2,725,000	9,105,000
Charge-offs	0	(1,120,000)	(4,173,000)
Recoveries	0	469,000	619,000
Provision	(264,000)	699,000	3,864,000
Ending allowance	0	2,773,000	9,415,000
Report Element			
Properties		Occurrences	
Report Standard Label	Provision for Loan, Lease, and Other Losses		
Definitions of Report Element			
Base Taxonomy Standard Label	Provision		
Documentation:	Amount of expense related loan transactions, lease transactions, credit loss from transactions other than loan and lease transactions, and other loss based on assessment of uncollectability from the counterparty to reduce the account to their net realizable value.		
Report Element Class	Concept		
Prefix (From Taxonomy)	us-gaap		
Balance Type	Debit		
Period Type	For Period (duration)		
Data Type	Monetary (xbrl:monetaryItemType)		
Name	us-gaap:ProvisionForLoanLeaseAndOtherLosses		
ID	us-gaap_ProvisionForLoanLeaseAndOtherLosses		

And so, one test of a basic relationship points out an error in the reported information.

Many facts are related to other reported facts. While the fundamental accounting concept relations point out some of these sorts of relations, many other such relations exist. In this specific case you see a relation between facts on the income statement, cash flow statement, and then a relation that should exist in the disclosure of the roll forward of the allowance for loan losses.

It is important that this information be represented correctly so that contradictions and inconsistencies do not exist in XBRL-based digital financial reports that you create.

1.32. Recognize the difference between dependent and independent characteristics

Every characteristic of a report component can stand alone. If an additional characteristic is added to a report component; that characteristic must be independent of all other characteristics.

[CSH: TO DO, this is from Campbell Pryde's document *Dimensions Guidance*.]

1.33. Recognize that one or many characteristics form a key which is used to identify facts.

If you understand databases then you probably understand the notion of a "key". A key is used to uniquely identify a row in a database table. Similar to databases, characteristics play the role of providing a key that uniquely identifies a fact. A single key characteristic might exist or you might need to create a composite key using multiple characteristics

[CSH: TO DO, this is from Campbell Pryde's document *Dimensions Guidance*.]

1.34. Respect WHOLE/PART relations

Concepts are related to other concepts. One of the types of relations is where some concept is a WHOLE and some other concept is a PART of that WHOLE. These relations must be respected. The best way to understand this is to look at an example.

Consider this public company XBRL-based financial filing as an example:

APPLIED INDUSTRIAL TECHNOLOGIES INC

<http://www.sec.gov/Archives/edgar/data/109563/000010956316000309/0000109563-16-000309-index.htm>

This public company is reporting conflicting, contradictory revenues related facts. Per the US GAAP XBRL Taxonomy the concept "us-gaap:SalesRevenueNet" is PART of the WHOLE "us-gaap:Revenues". Yet this company reports a PART that is more than the WHOLE. This is illogical. This screen shot shows two revenue related facts that are reported;

Revenues	fac:Revenues[us-gaap:Revenues[5,264,000]]
----------	---

Fact determination of fac:Revenues		
1	us-gaap:Revenues	5,264,000
2	us-gaap:SalesRevenueNet	624,848,000
3	us-gaap:SalesRevenueServicesNet	-

US GAAP XBRL Taxonomy:

124000 - Statement - Statement of Income (Including Gross Margin)

	Revenue, Net	Cr	us-gaap:SalesRevenueNet
+	Financial Services Revenue	Cr	
+	Net Investment Income	Cr	
+	Realized Investment Gains (Losses)	Cr	
+	Revenues, Excluding Interest and Dividends	Cr	
+	Investment Banking Revenue	Cr	
+	Underwriting Income (Loss)	Cr	
+	Market Data Revenue	Cr	
+	Other Operating Income	Cr	
+	Other Income	Cr	
	Revenues	Cr	us-gaap:Revenues

Income statement:

State	Period [Axis]	
	2016-07-01 - 2016-09-30	2015-07-01 - 2015-09-30
us-gaap:SalesRevenueNet		
Income Statement [Abstract]		
Net Sales	624,848,000	641,904,000
Cost of Sales	446,518,000	460,892,000
Gross Profit	178,330,000	181,012,000
Selling, Distribution and Administrative, including depreciation	135,112,000	139,986,000
Operating Income	43,218,000	41,026,000
Interest Expense, net	2,146,000	2,187,000
Other (Income) Expense, net	(398,000)	1,004,000
Income Before Income Taxes	41,470,000	37,835,000
Income Tax Expense	14,099,000	13,544,000
Net Income	27,371,000	24,291,000

Segment disclosure:

I0-Q) 2409405 - Disclosure - Segment and Geographic Information (Details Textuals) Segment and Geog

Reporting Entity [Axis]	0000109563 (http://www.sec.gov/CIK)	
Segment Reporting [Abstract]	Period [Axis]	
	2016-07-01 - 2016-09-30	2015-07-01 - 2015-09-30
Segment Reporting [Abstract]		
Segment and Geographic Information (Textuals) [Abstract]		
Sales primarily from businesses segment	5,264,000	5,955,000

Report Element	
Properties	Occurrences
Report Standard Label	Revenues
Definitions of Report Element	
Base Taxonomy Standard Label	Sales primarily from businesses segment
Documentation:	Amount of revenue recognized from goods sold, services rendered, insurance premiums, or other activities that constitute an earning process. Includes, but is not limited to, investment and interest income before deduction of interest expense when recognized as a component of revenue, and sales and trading gain (loss).
Report Element Class	Concept
Prefix (From Taxonomy)	us-gaap
Balance Type	Credit
Period Type	For Period (duration)
Data Type	Monetary (xbrli:monetaryItemType)
Name	us-gaap:Revenues
ID	us-gaap_Revenues